

EB-2019-0032

Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 1

Page **1** of **1** 

#### 1 - SEC - 1

Reference:

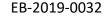
Exhibit 1

#### **Question:**

Please provide all material provided to the Applicant's Board of Directors regarding its approval of this application and the underlying budgets.

#### Response:

Please see the response to AMPCO - 2.





Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 2

Page **1** of **1** 

#### 1 - SEC - 2

#### Reference:

Exhibit 1

#### Question:

Please provide copies of all benchmarking studies, reports, and analysis that the Applicant has undertaken or participated in since its last rebasing application in 2009, that are not already included in the application.

#### Response:

ENWIN as well as all LDC's in Ontario have access to a variety of information in order to conduct benchmarking, including the following:

- Electricity distributor yearbooks;
- Electricity utility scorecards, including:
  - Customer Satisfaction Survey results
  - Public Awareness of Electrical Safety Survey results;
  - Pacific Economics Group Research, LLC ("PEG") annual benchmarking update reports; and
- Electricity distribution rates databases.

ENWIN has not included all of the above information as part of the response to this interrogatory due to the large volume information requested. The above information is generally already publicly available through the OEB's website.

In addition to these sources of data, ENWIN has also from time to time conducted benchmarking utilizing outside service providers. Some examples of this type of benchmarking are appended to this response, and are itemized, below:

- 2010 Utility Performance Management Survey (SEC 2 Attachment 1)
- 2011 Utility Performance Management Survey (SEC 2 Attachment 2)
- 2012 Utility Performance Management Survey (SEC 2 Attachment 3)
- 2016 Scorecard Comparison Report (SEC 2 Attachment 4)
- Salary Survey (SEC 2 Attachment 5)



# **UPM** Survey

# 2010



**ENWIN Utilities Ltd.** 





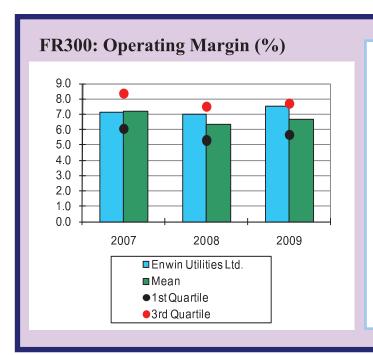






EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 1 2 of 16

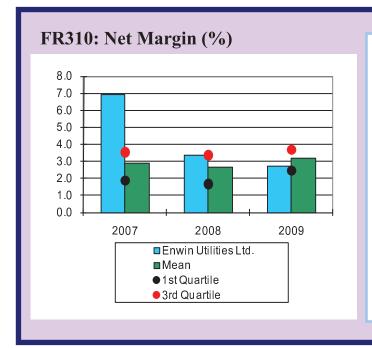
#### 1. Profitability



Operating Margin is defined as:

## EBIT Total Electricity Revenue

Operating margin reflects the profitability of the company as influenced by management decisions (interest and taxes are excluded). The higher the operating margin, the more profitable is the company's core business. This ratio indicates that your LDC is more effective than most participants at managing your costs and contributing to the profitability of your business.

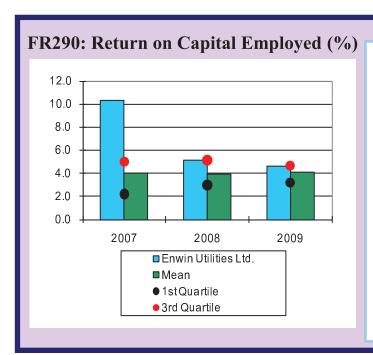


Net Margin is defined as:

Net Income
Total Electricity Revenue

Net margin is a measure of corporate profitability and a good way of comparing companies in the same industry, since such companies are generally subject to similar business conditions. Your LDC has fallen below average with respect to this financial indicator although you are generating sufficient income to cover financial expenses as well as operating expenses.





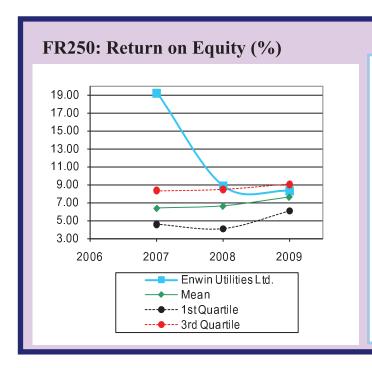
ROCE is defined as:

Net Income

Equity + Debt- (Cash+ Short Term Investments)

This ratio measures profit per dollar of capital employed.

It is similar to Return on Assets but takes into account the sources of financing. It is commonly used as a measure for assessing whether a business generates enough returns to pay for its cost of capital. Your LDC is realizing greater returns from capital employed than most participants.



ROE is defined as:

Net Income

Total Equity

(Including share capital and retained earnings)

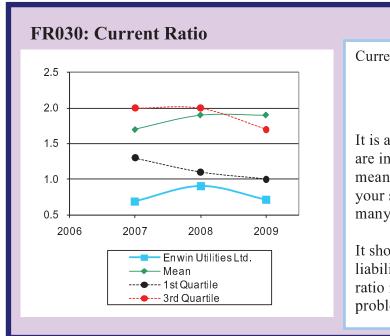
This ratio measures profit per dollar of equity. Your LDC is above the average of participating LDCs.



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#### 2. Financial Strength

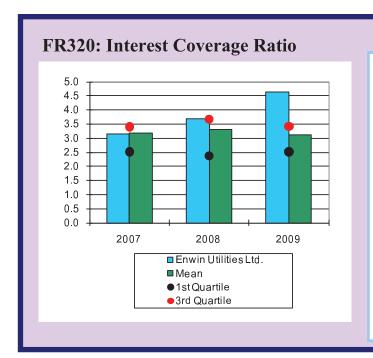


Current ratio is defined as:

#### <u>Current Assets</u> Current Liabilities

It is a measure of the utility's liquidity. You are in the bottom quartile for this metric, meaning that you may be less able to meet your short term financial obligations than many of your peer LDCs.

It should be noted that when current liabilities exceed current assets (the current ratio is below 1), a company may have problems meeting its short-term obligations.



The Interest Coverage Ratio is calculated as:

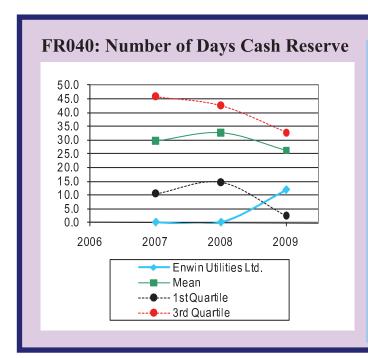
EBIT Expenses – Financial

It is a measure of a company's ability to honour its debt payments. Your LDC has a higher value for this ratio than most LDCs.



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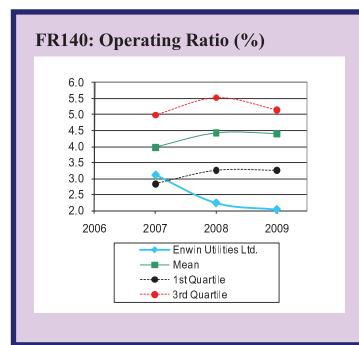
#### Enwin Utilities Ltd. 2010 Performance Scorecard



#### This ratio is defined as:

<u>Cash + Short Term Investments</u> (Cost of Power, Operations, Maintenance, Admin., Financing charges, and Capital Expenditures) / 365

This ratio measures the utility's ability to meet its short term cash requirements. Your results indicate that you may want to review your levels of cash and short term investments. Because your number of days reserve is lower than the mean, you may not be as able to meet your short term cash requirements as the average survey participant.



#### Operating Ratio is defined as

Total O & M Expenses
Total Revenue

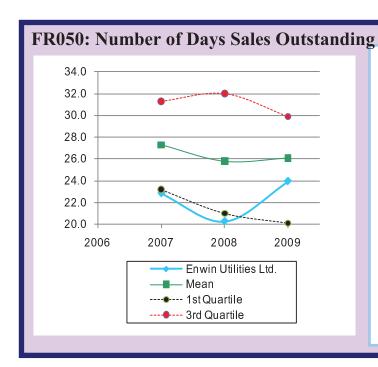
This ratio provides an indication of the utility's effectiveness in managing operation and maintenance costs as a percent of its total electricity revenue.

Your results indicate a lower level of O&M costs per revenue than most LDCs Influences include the age of the plant and the amount of plant replacement carried out by the utility.





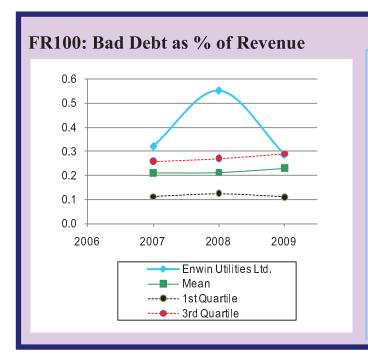
#### 3. Asset Utilization



This ratio is defined as:

Accounts Receivable: Electrical Energy at year end (Total Service Revenue / 365)

This ratio relates to the utility's ability to expedite the collection of its accounts receivable related to the sale of energy. It is influenced by utility collection practices and, together with the ratio Number of Days of Unbilled Revenue, will provide an indication of the utility's ability to manage its major accounts receivable balances. You are below average in this area, reflecting better billing and collections practices than other LDCs.



This ratio is defined as:

Bad Debt Total Revenue

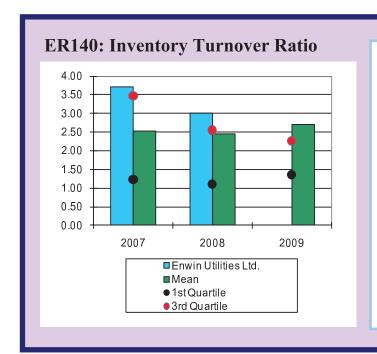
It indicates how effectively a utility is collecting revenue - the lower the percentage, the more effective the utility is at collecting service revenue.

Major variances from year to year may result from economic conditions, or from large customers becoming insolvent.

You are above average for this ratio, meaning that there may be room for improvement in addressing bad debt.



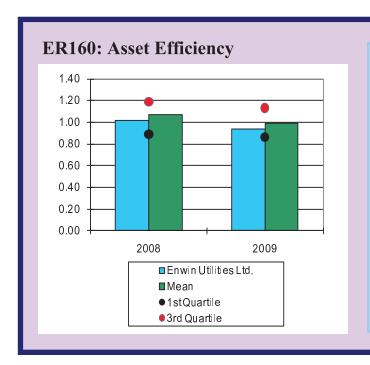




This ratio is defined as:

# Full Year of Cost of Materials Used Average Inventory

This ratio indicates how effectively a utility is managing its inventory. Your results indicate that you had a high rate of inventory turnover during a typical operating cycle in 2007 and 2008 and no inventory turnover in 2009.



Asset Efficiency is defined as:

## Total Electricity Service Revenue Net Assets

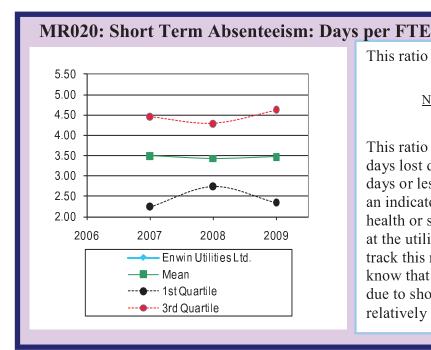
The higher this ratio, the greater the revenue generated from existing assets. Your LDC is at the average on this measure of efficiency.



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#### 4. Employees



This ratio is defined as:

### Number of Short Term Absences Number of FTEs

This ratio calculates the number of work days lost due to short term absenteeism (5 days or less) per FTE. Absenteeism may be an indicator of employee satisfaction and/or health or safety or environmental conditions at the utility. Although you do not currently track this metric, it might of interest you to know that the average number of days lost due to short term absenteeism has stayed relatively constant over the last three years.

#### MR070: Staff Development Expenses per FTE 3000 2500 2000 1500 1000 500 0 2006 2007 2008 2009 Enwin Utilities Ltd. - Mean ---• 1st Quartile ---- 3rd Quartile

This ratio is defined as:

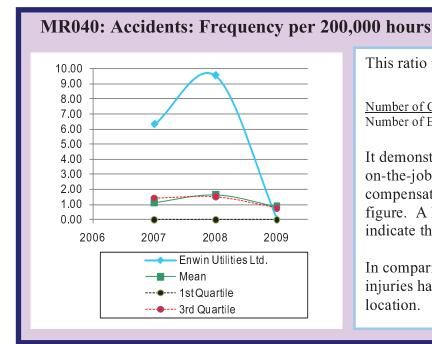
Total Costs of Staff Development
Number of FTEs

This ratio indicates the average cost spent per employee on staff development.

Although you do not currently track this metric, it might interest you to know that spending on staff development has decreased slightly for most LDCs over the last year.







This ratio is defined as:

Number of Compensable Injuries x 200,000 Number of Employee Hours Worked

It demonstrates the trend in frequency of on-the-job accidents. Only injuries where compensation is paid are included in this figure. A high accident frequency may indicate that more safety training is needed.

In comparison to your peers, compensable injuries have become less frequent at your location.



This ratio is defined as:

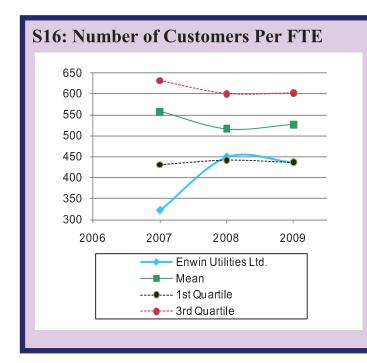
Cost of Training on Safe Work Practices
Number of FTEs

This ratio indicates the average cost spent per employee on safety training. It can be looked at in conjunction with MR040: Accidents: Frequency per 200,000 hours. Although you do not currently track this metric, it might interest you to know that the average cost of safety training per FTE has increased over the last three years.



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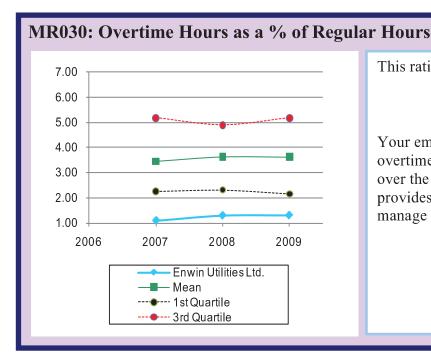
# Enwin Utilities Ltd. 2010 Performance Scorecard



This ratio is defined as:

# Total Customers Total FTEs

This ratio is a traditional indicator of corporate performance; the greater the number of customers per employee, generally the more productive and efficient the organization. Your results indicate a lower than average ratio. This ratio should not however be looked at in isolation. A high number could indicate industry growth if the total number of customers has increased year over year.



This ratio is defined as:

Overtime Hours Worked Total Regular Hours

Your employees have worked less overtime as compared with other LDCs over the last three years. This measure provides an indication of how utilities manage their workload.

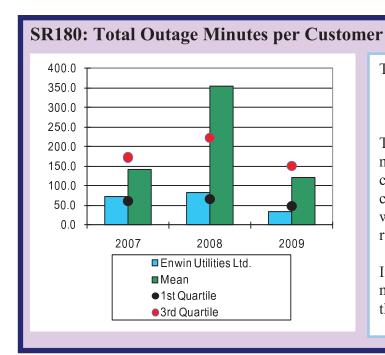


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#### 5. Customers

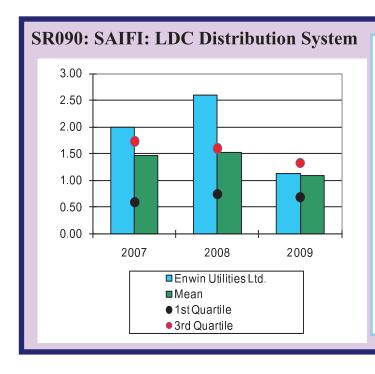


This ratio is defined as:

Customer minutes of Interruption
Number of Customers

This ratio takes into account total outage minutes per customer, including those caused by supply (Code 2). A higher ratio can be caused by such things as severe weather or by lack of adequate responsiveness on the part of the LDC.

In the last three years, you had a smaller number of outage minutes per customer than many LDCs.



SAIFI is defined as:

Total Number of Customer Interruptions
Total Number of Customers

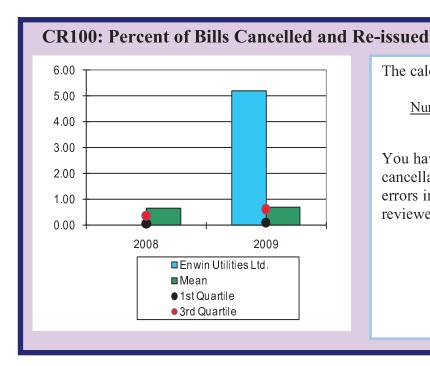
SAIFI is commonly used as a reliability indicator because it calculates the average number of interruptions that a customer would experience in a year. It is measured in units of interruptions per customer and it looks at the interruptions caused by the distribution system only. According to IEEE Standard 1366, the median value for North American utilities is approximately 1.10 interruptions per customer.

Your results indicate that you are at the average of the participating LDCs for this measure of system reliability.



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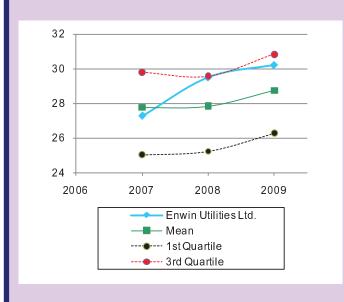


The calculation for this ratio is:

Number of bills cancelled & reissued
Total number of bills issued

You have a higher than average rate of bill cancellation and re-issue. This may reflect errors in bill preparation that should be reviewed.

#### S172: Monthly Bill for 1000kWh Residential Customers



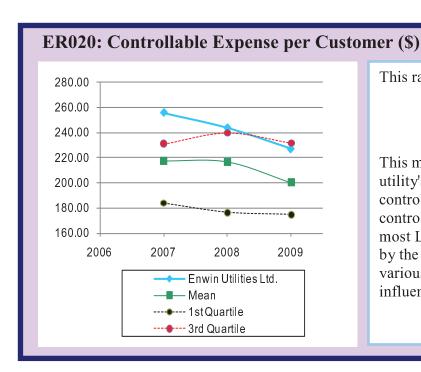
This figure includes both customer and distribution charges.

Your customers were paying around the same amount as most LDC customers in 2007, but are currently paying more than the customers of most of your peers.





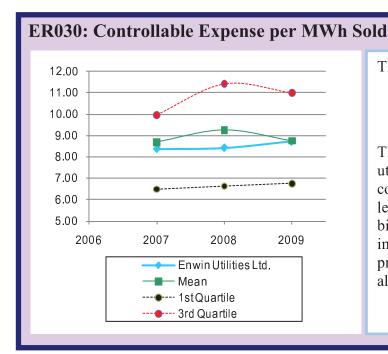
#### 6. Efficiency



This ratio is defined as:

### Controllable Costs Total customers

This measure provides an indication of the utility's effectiveness in managing controllable costs. Your LDC has higher controllable expenses per customer than most LDCs. This ratio can be influenced by the degree to which a utility provides various customer services. It can also be influenced by the age of the plant.



This ratio is defined as:

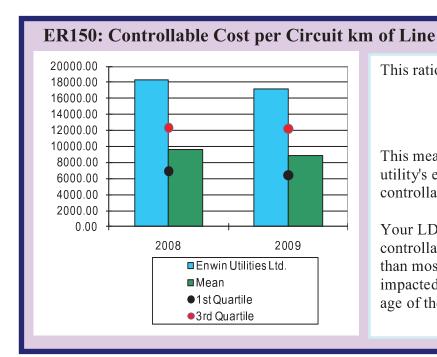
## Controllable Costs Total MWh Billed

This measure provides an indication of the utility's effectiveness in managing controllable costs. Your LDC has average levels of controllable expenses per MWh billed. As with ER020, this ratio can be influenced by the degree to which a utility provides various customer services. It can also influenced be by the age of the plant.

41





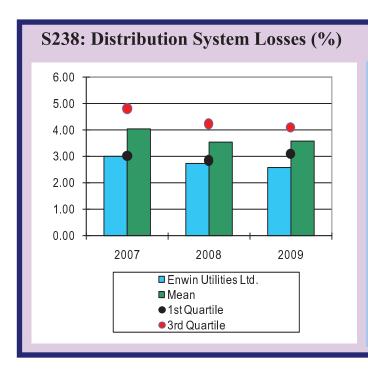


This ratio is defined as:

Controllable Costs
Total Circuit km of line

This measure provides an indication of the utility's effectiveness in managing controllable costs.

Your LDC has a higher ratio of controllable costs per circuit km of line than most LDCs. This ratio may be impacted by customer density and by the age of the plant.



This metric identifies the losses associated with providing electricity from generators to end-users.

Losses can be the result of technical deficiencies or theft of power.

Your LDC is reporting a smaller percent of losses than most of your counterparts.



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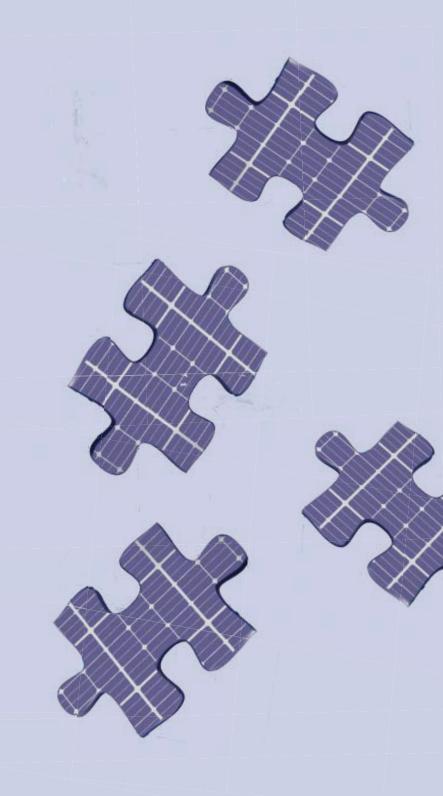
EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 1 15 of 16



## THE MEARIE GROUP

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EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 2 1 of 15



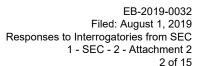
# 2011UtilityPerformance ManagementSurvey

Performance Scorecard 

EnWin Utilities Ltd.









#### 1. Profitability

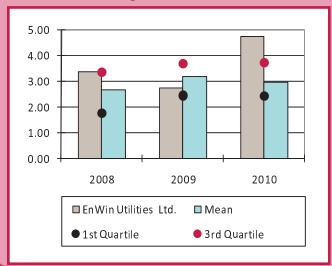


Operating Margin is defined as:

#### EBIT Total Electricity Revenue

Operating margin reflects the profitability of the company as influenced by management decisions (interest and taxes are excluded). The higher the operating margin, the more profitable is the company's core business. In 2010, this ratio indicates that your LDC is at the 3<sup>rd</sup> Quartile and thus better than most survey participants in your effectiveness in managing your costs and contributing to the profitability of your business. This is similar to your result in 2009.

#### FR310: Net Margin (%)



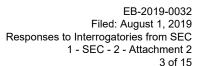
Net Margin is defined as:

# Net Income Total Electricity Revenue

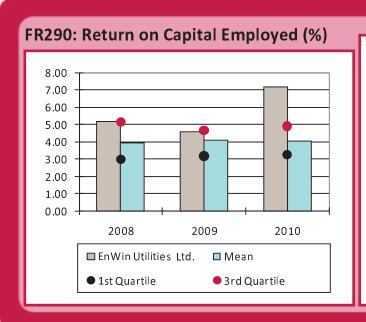
Net margin is a measure of corporate profitability and a good way of comparing companies in the same industry, since such companies are generally subject to similar business conditions. In 2010, your LDC's high net margin indicates that you are generating more than sufficient income to cover financial expenses as well as operating expenses. This is an improvement over 2009.

32









ROCE is defined as:

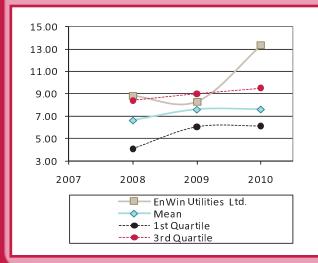
#### Net Income

Equity + Debt- (Cash+ Short Term Investments)

This ratio measures profit per dollar of capital employed. It is similar to Return on Assets but takes into account the sources of financing. It is commonly used as a measure for assessing whether a business generates enough returns to pay for its cost of capital.

In 2010, and consistent with 2008 and 2009, your LDC is at the 3<sup>rd</sup> Quartile and is realizing greater returns from capital employed than most participants.

#### FR250: Return on Equity (%)



ROE is defined as:

#### Net Income

**Total Equity** 

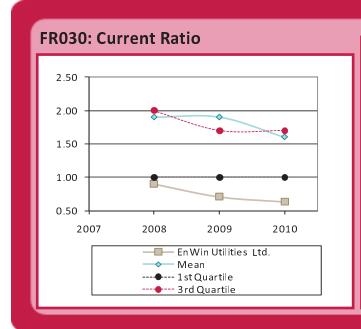
(Including share capital and retained earnings)

This ratio measures profit per dollar of equity. With a large increase over the last year in 2010, your LDC is in the 3<sup>rd</sup> Quartile of participating LDCs, consistent with 2008. This indicates you have a profit per dollar of equity greater than most LDCs participating in the survey.





#### 2. Financial Strength



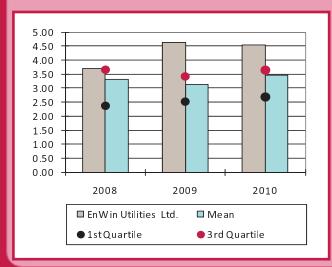
Current ratio is defined as:

#### <u>Current Assets</u> Current Liabilities

It is a measure of the utility's liquidity. Consistent with 2009, in 2010, you are below the bottom Quartile for this metric, meaning that you may be less able to meet your short term financial obligations than many of the participants in the survey.

[As a note, when current liabilities exceed current assets (the current ratio is below 1), a company may have problems meeting its short-term obligations.]

#### FR320: Interest Coverage Ratio



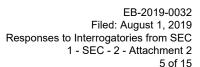
The Interest Coverage Ratio is calculated as:

#### EBIT Expenses — Financial

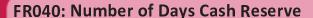
It is a measure of a company's ability to honour its debt payments. As in 2009, in 2010 your LDC has a higher value for this ratio than most survey participants.



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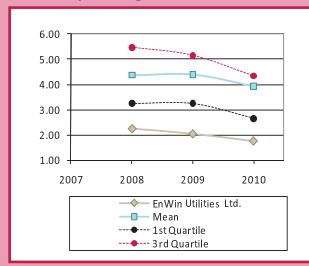


This ratio is defined as:

Cash + Short Term Investments
(Cost of Power, Operations, Maintenance,
Admin., Financing charges, and Capital
Expenditures) / 365

This ratio measures the utility's ability to meet its short term cash requirements. Your 2010 results indicate that you may want to review your levels of cash and short term investments. Because your number of days reserve is in the 1<sup>st</sup> Quartile, you may not be as able to meet your short term cash requirements as most of the survey participants.

#### FR140: Operating Ratio (%)



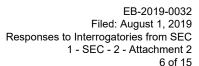
Operating Ratio is defined as

## Total O & M Expenses Total Revenue

This ratio provides an indication of the utility's effectiveness in managing operation and maintenance costs as a percent of its total electricity revenue. Your 2010 results are consistent with 2008 and 2009 and indicate a lower level of O&M costs per revenue than most LDCs Influences include the age of the plant and the amount of plant replacement carried out by the utility.

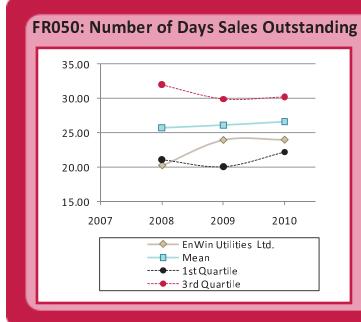


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#### 3. Asset Utilization

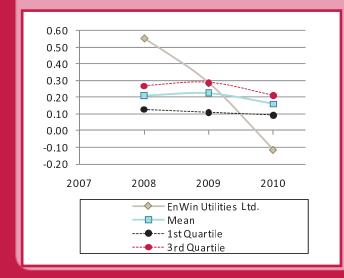


This ratio is defined as:

Accounts Receivable: Electrical Energy at year end (Total Service Revenue / 365)

This ratio relates to the utility's ability to expedite the collection of its accounts receivable related to the sale of energy. It is influenced by utility collection practices and, together with the ratio Number of Days of Unbilled Revenue, will provide an indication of the utility's ability to manage its major accounts receivable balances. In 2010, you are below average in this area, reflecting better billing and collections practices than other participants.

#### FR100: Bad Debt as % of Revenue



This ratio is defined as:

#### **Bad Debt**

Total Revenue

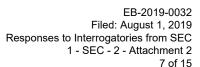
It indicates how effectively a utility is collecting revenue - the lower the percentage, the more effective the utility is at collecting service revenue.

Major variances from year to year may result from economic conditions, or from large customers becoming insolvent.

In 2010, you have dropped below the 1<sup>st</sup> Quartile for this ratio, meaning that you are more effective in managing bad debt than the average survey participant.

36







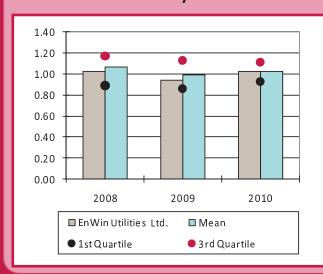
#### **ER140: Inventory Turnover Ratio** 4.00 3.50 3.00 2.50 2.00 1.50 1.00 0.50 0.00 2008 2009 2010 ■ EnWin Utilities Ltd. ■ Mean ■ 1st Quartile 3rd Quartile

This ratio is defined as:

# Full Year of Cost of Materials Used Average Inventory

This ratio indicates how effectively a utility is managing its inventory. In 2010, your results indicate that you have a rate of inventory turnover during a typical operating cycle that is below the average for LDCs participating in the survey.

#### **ER160: Asset Efficiency**



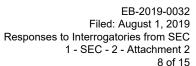
Asset Efficiency is defined as:

# Total Electricity Service Revenue Net Assets

The higher this ratio, the greater the revenue generated from existing assets. In 2010, your LDC is at the average on this measure of efficiency.



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#### 4. Employees

#### MR020: Short Term Absenteeism: Days per FTE



This ratio is defined as:

#### Number of Short Term Absences

Number of FTEs

This ratio calculates the number of work days lost due to short term absenteeism (5 days or less) per FTE. Absenteeism may be an indicator of employee satisfaction and/or health or safety or environmental conditions at the utility.

You currently do not track this information for 2008 - 2010, but on average survey participants have recorded slightly more short term absences in the last year.

#### MR070: Staff Development Expenses per FTE



This ratio is defined as:

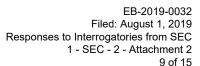
# Total Costs of Staff Development Number of FTEs

This ratio indicates the average cost spent per employee on staff development.

You currently do not track this information, but in 2010 the other survey participants have increased spending in the area of staff development over the last year.

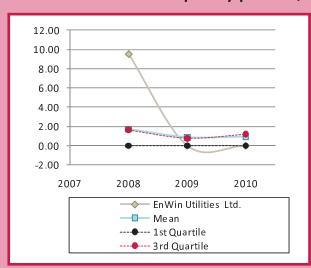
38







#### MR040: Accidents: Frequency per 200,000 hours



This ratio is defined as:

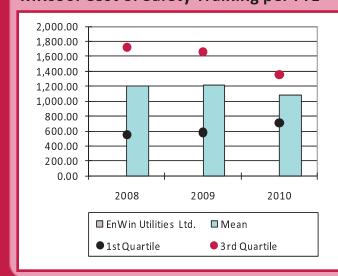
Number of Compensable Injuries x 200,000

Number of Employee Hours Worked

It demonstrates the trend in frequency of onthe-job accidents. Only injuries where compensation is paid are included in this figure. A high accident frequency may indicate that more safety training is needed.

In comparison to your peers, compensable injuries have been less frequent at your location over 2009 and 2010 – an improvement over 2008.

#### MR090: Cost of Safety Training per FTE



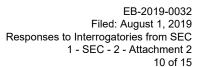
This ratio is defined as:

## Cost of Training on Safe Work Practices Number of FTFs

This ratio indicates the average cost spent per employee on safety training. It can be looked at in conjunction with MR040: Accidents: Frequency per 200,000 hours. You currently do not track this information, but in 2010 and on average the other survey participants have decreased spending in the area of safety training over the last year.

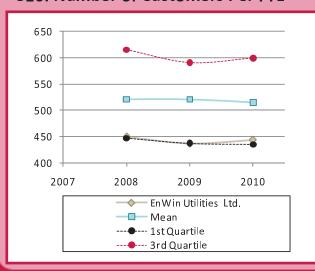


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#### **S16: Number of Customers Per FTE**



This ratio is defined as:

## Total Customers Total FTEs

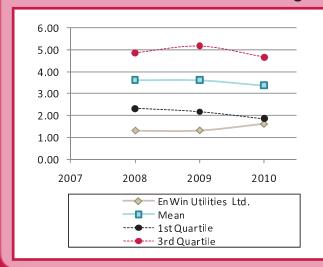
This ratio is a traditional indicator of corporate performance; the greater the number of customers per employee, generally the more productive and efficient the organization.

Consistent with 2008 and 2009 your 2010 results indicate a lower than average ratio.

This ratio should not however be looked at in isolation. A high number could indicate industry.

isolation. A high number could indicate industry growth if the total number of customers has increased year over year.

#### MR030: Overtime Hours as a % of Regular Hours



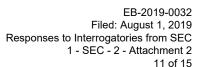
This ratio is defined as:

# Overtime Hours Worked Total Regular Hours

In 2010, and consistent with 2008 and 2009 you have been in the 1<sup>st</sup> Quartile and your employees have worked less overtime as compared with other survey participants over the last three years. This measure provides an indication of how utilities manage their workload.

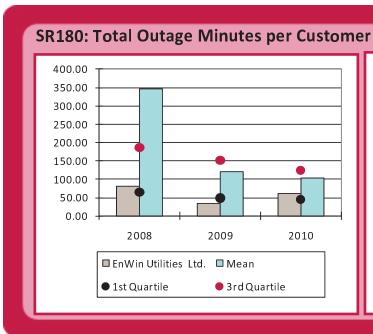


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#### 5. Customers



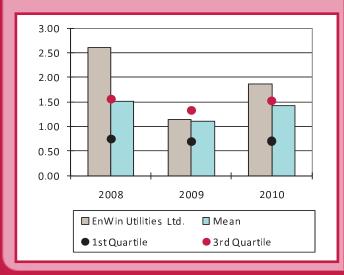
This ratio is defined as:

#### <u>Customer minutes of Interruption</u> Number of Customers

This ratio takes into account total outage minutes per customer, including those caused by supply (Code 2). A higher ratio can be caused by such things as severe weather or by lack of adequate responsiveness on the part of the LDC.

As in 2008 and 2009 your utility is in the 1<sup>st</sup> Quartile in 2010, and you had a smaller number of outage minutes per customer than most survey participants.

#### SR090: SAIFI: LDC Distribution System



SAIFI is defined as:

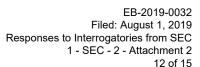
<u>Total Number of Customer Interruptions</u> Total Number of Customers

SAIFI is commonly used as a reliability indicator because it calculates the average number of interruptions that a customer would experience in a year. It is measured in units of interruptions per customer and it looks at the interruptions caused by the distribution system only. According to IEEE Standard 1366, the median value for North American utilities is approximately 1.10 interruptions per customer.

Your results in 2010 indicate that your customers are experiencing more interruptions than the customers of most survey participants.



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#### CR100: Percent of Bills Cancelled and Re-issued



The calculation for this ratio is:

# Number of bills cancelled & reissued Total number of bills issued

In both 2009, and 2010, you have a significantly higher rate of bill cancellation and re-issue than the average survey participant. Although this may reflect errors in bill preparation that should be reviewed, there may have been other extenuating circumstances created by customers and due to local economic conditions.

#### S172: Monthly Bill for 1000kWh Residential Customers



This figure includes both customer and distribution charges.

Over 2008 through 2010 you have been in the upper Quartile of survey participants, and your customers are paying higher bills per month than those of the average LDC participant.



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#### 6. Efficiency



This ratio is defined as:

## Controllable Costs Total customers

This measure provides an indication of the utility's effectiveness in managing controllable costs. Consistent with 2008 and 2009, in 2010 your LDC has higher controllable expenses per customer than most LDCs. This ratio can be influenced by the degree to which a utility provides various customer services. It can also be influenced by the age of the plant.

#### **ER030: Controllable Expense per MWh Sold (\$)**



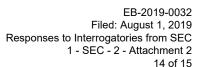
This ratio is defined as:

## Controllable Costs Total MWh Billed

This measure provides another indication of the utility's effectiveness in managing controllable costs. Consistent with 2008 and 2009, in 2010 your LDC has average levels of controllable expenses per MWh billed. As with ER020, this ratio can be influenced by customer density as well as the degree to which a utility provides various customer services. It can also be influenced by the age of the plant.

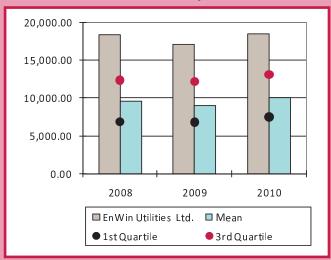


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#### **ER150: Controllable Cost per Circuit km of Line**



This ratio is defined as:

<u>Controllable Costs</u>
Total Circuit km of line

This measure provides an indication of the utility's effectiveness in managing controllable costs. For the period 2008 through 2010, your LDC has a higher ratio of controllable costs per circuit km of line than most survey participants. This ratio may be impacted by customer density and by the age of the plant.

#### S238: Distribution System Losses (%)



This metric identifies the losses associated with providing electricity from generators to end-users.

Losses can be the result of technical deficiencies or theft of power.

As in 2008 and 2009, in 2010 your LDC is reporting a smaller percent of losses than most of your counterparts.



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# 2011UtilityPerformance ManagementSurvey

# **UPM** Survey





3700 Steeles Avenue West, Suite 1100 Vaughan, Ontario L4L 8K8 905.265.5300 1.800.668.9979 www.mearie.ca

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 3



# 2012UtilityPerformance ManagementSurvey

Performance Scorecard 

ENWIN Utilities Ltd.





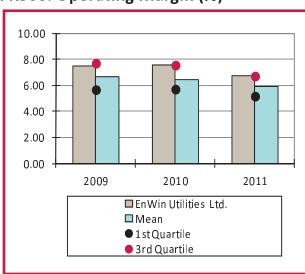
2 of 15

# EnWin Utilities Ltd. 2011 Performance Scorecard



#### 1. Profitability

#### FR300: Operating Margin (%)

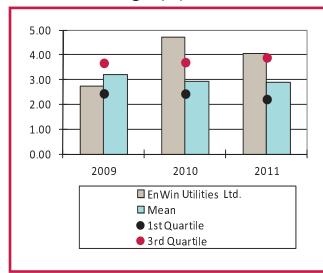


Operating Margin is defined as:

#### EBIT Total Electricity Revenue

Operating margin reflects the profitability of the company as influenced by management decisions (interest and taxes are excluded). The higher the operating margin, the more profitable is the company's core business. In 2011, this ratio indicates that your LDC is more effective than most participants at managing your costs and contributing to the profitability of your business.

#### FR310: Net Margin (%)



Net Margin is defined as:

# Net Income Total Electricity Revenue

Net margin is a measure of corporate profitability and a good way of comparing companies in the same industry, since such companies are generally subject to similar business conditions. Although your LDC had a low period in 2009, in 2010 and 2011 you were generating more than sufficient income to cover financial expenses as well as operating expenses.

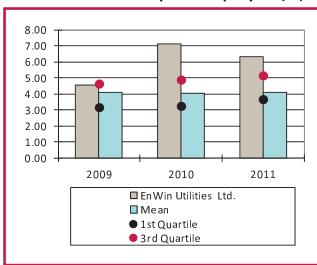


3 of 15

# EnWin Utilities Ltd. 2011 Performance Scorecard



#### FR290: Return on Capital Employed (%)



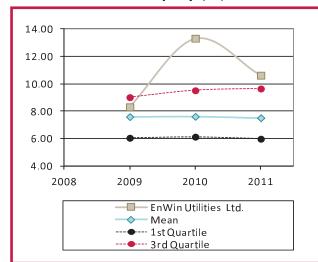
ROCE is defined as:

Net Income

Equity + Debt – (Cash + Short Term Investments)

This ratio measures profit per dollar of capital employed. It is similar to Return on Assets but takes into account the sources of financing. It is commonly used as a measure for assessing whether a business generates enough returns to pay for its cost of capital. In 2011, your utility continues to realize greater returns from capital employed than most participants.

#### FR250: Return on Equity (%)



ROE is defined as:

Net Income

Total Equity

(Including share capital and retained earnings)

This ratio measures profit per dollar of equity. Your LDC was in line with the average with respect to ROE in 2009 and in the third quartile in 2010 and 2011. Once again your results are better than most participants for this ratio.

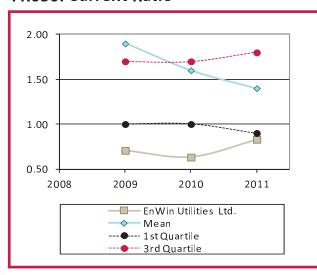


# EnWin Utilities Ltd. 2011 Performance Scorecard



## 2. Financial Strength

#### FR030: Current Ratio



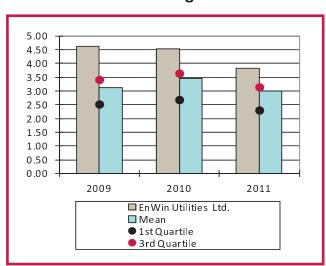
Current ratio is defined as:

<u>Current Assets</u> Current Liabilities

It is a measure of the utility's liquidity. In 2009, 2010 and 2011 your results are consistently in the 1<sup>st</sup> quartile for this metric. There is a risk you may be less able to meet your short term financial obligations than many of the participants.

It should be noted that when current liabilities exceed current assets (the current ratio is below 1), a company may have problems meeting its short-term obligations.

#### FR320: Interest Coverage Ratio



The Interest Coverage Ratio is calculated as:

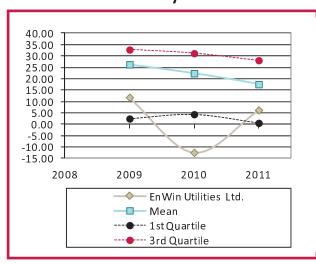
Expenses – Financial

It is a measure of a company's ability to honour its debt payments. In 2011, consistent over the period, your LDC has a higher value for this ratio than most of the survey's participants.





## FR040: Number of Days Cash Reserve



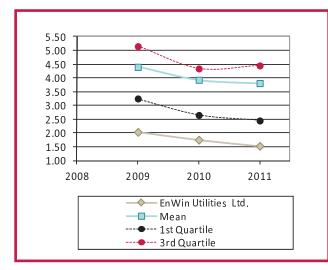
This ratio is defined as:

Cash + Short Term Investments
(Cost of Power, Operations, Maintenance, Admin., Financing charges, and Capital Expenditures) / 365

This ratio measures the utility's ability to meet its short term cash requirements. Your 2011 results are higher than 2010, however, you may want to assess the risk associated with your levels of cash and short term investments.

Because your number of days reserve is lower than the mean, you may not be as able to meet your short term cash requirements as the average survey participant.

## FR140: Operating Ratio (%)



Operating Ratio is defined as

# Total O & M Expenses Total Revenue

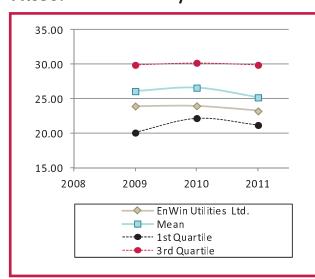
This ratio provides an indication of the utility's effectiveness in managing operation and maintenance costs as a percent of its total electricity revenue. Consistent with previous years in the period, 2011 results indicate a lower level of O&M costs per unit of revenue than most participants. Influences include the age of the plant and the amount of plant replacement carried out by the utility.





#### 3. Asset Utilization

## FR050: Number of Days Sales Outstanding

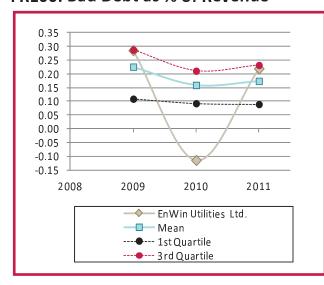


This ratio is defined as:

Accounts Receivable: Electrical Energy at year end (Total Service Revenue / 365)

This ratio relates to the utility's ability to expedite the collection of its accounts receivable related to the sale of energy. It is influenced by utility collection practices and, together with the ratio Number of Days of Unbilled Revenue (FR070), will provide an indication of the utility's ability to manage its major accounts receivable balances. Again in 2011, you are below average in this area, reflecting better billing and collections practices than other participating utilities.

#### FR100: Bad Debt as % of Revenue



This ratio is defined as:

#### Bad Debt Total Revenue

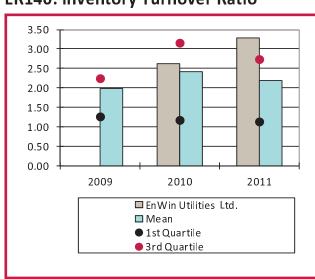
It indicates how effectively a utility is collecting revenue - the lower the percentage, the more effective the utility is at collecting service revenue. Major variances from year to year may result from economic conditions, or from large customers becoming insolvent.

You are near the 3<sup>rd</sup> quartile in 2011 for this ratio, meaning that there may be increased risk associated with bad debt management.





# ER140: Inventory Turnover Ratio

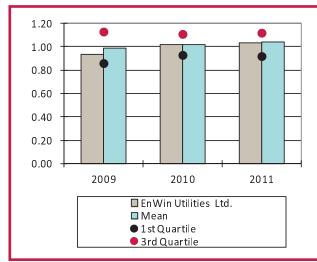


This ratio is defined as:

#### <u>Full Year of Cost of Materials Used</u> Average Inventory

This ratio indicates how effectively a utility is managing its inventory. In 2010 and 2011, the rate of inventory turnover during a typical operating cycle has been relatively high — above average and in the 3<sup>rd</sup> Quartile. High inventory turnover can be influenced by not having enough inventory on hand or buying in too small a quantity to sustain normal operations.

## **ER160: Asset Efficiency**



Asset Efficiency is defined as:

# Total Electricity Service Revenue Net Assets

The higher this ratio, the greater the revenue generated from existing assets. A lower ratio indicates a less effective use of assets to generate revenue. In 2011, your ratio is at the average for this measure of efficiency similar to previous years.



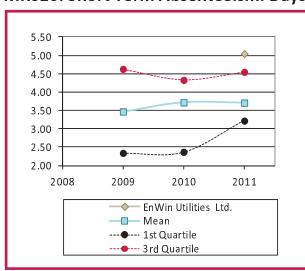
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## 4. Employees

# MR020: Short Term Absenteeism: Days per FTE

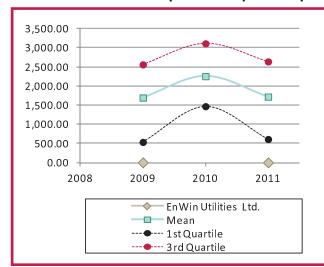


This ratio is defined as:

# Number of Short Term Absences Number of FTEs

This ratio calculates the number of work days lost due to short term absenteeism (5 days or less) per FTE. Absenteeism may be an indicator of employee satisfaction and/or health or safety or environmental conditions at the utility. You did not track this metric in 2009 and 2010, but in 2011 your employees took more short term absences than the average LDC employee.

#### MR070: Staff Development Expenses per FTE



This ratio is defined as:

# Total Costs of Staff Development Number of FTEs

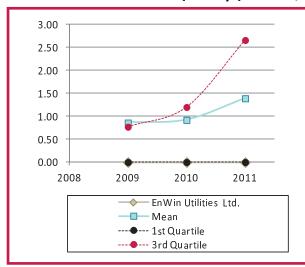
This ratio indicates the average cost spent per employee on staff development.

You spent nothing on staff development in 2009 and 2011. Participants in general increased their spending in this area in 2010.





## MR040: Accidents: Frequency per 200,000 hours

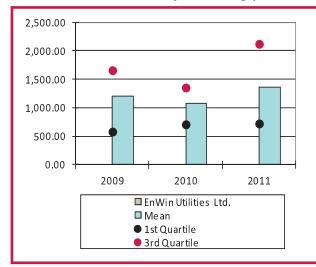


This ratio is defined as:

Number of Compensable Injuries x 200,000 Number of Employee Hours Worked

It demonstrates the trend in frequency of on-the-job accidents. Only injuries where compensation is paid are included in this figure. A high accident frequency may indicate that more safety training is needed. In comparison to your peers, in 2011 compensable injuries were less frequent at your location. You have had no accidents since 2009 and are in the 1<sup>st</sup> quartile.

#### MR090: Cost of Safety Training per FTE



This ratio is defined as:

# Cost of Training on Safe Work Practices Number of FTEs

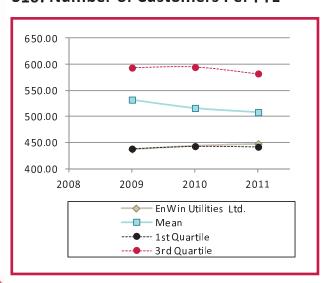
This ratio indicates the average cost spent per employee on safety training. It can be looked at in conjunction with MR040: Accidents: Frequency per 200,000 hours.

Although you do not track this metric, spending in this area decreased on average in 2010 and hit a three-year high in 2011.





#### **S16: Number of Customers Per FTE**

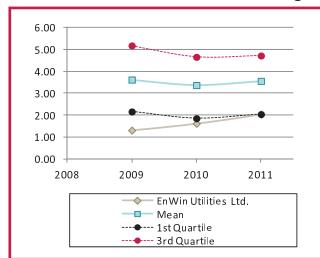


This ratio is defined as:

# Total Customers Total FTEs

This ratio is a traditional indicator of corporate performance; the greater the number of customers per employee, generally the more productive and efficient the organization. Your results are consistently at the 1<sup>st</sup> quartile for the period 2009 to 2011. This ratio should not be looked at in isolation. The number could reflect a decline in the total number of customers year over year. However, a decrease in customers per FTE alone should merit further investigation.

#### MR030: Overtime Hours as a % of Regular Hours



This ratio is defined as:

# Overtime Hours Worked Total Regular Hours

Although this ratio has increased slightly in 2011, your employees are consistently working less overtime compared with other participants. This measure provides an indication of how utilities manage their workload. It can be looked at with S16: Number of Customers per FTE. High values for both ratios could indicate that the LDC is understaffed.

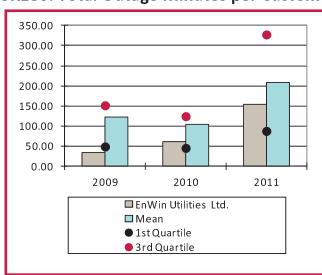


# EnWin Utilities Ltd. 2011 Performance Scorecard



#### 5. Customers

## SR180: Total Outage Minutes per Customer



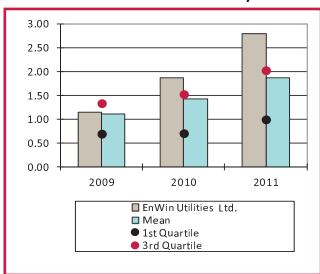
This ratio is defined as:

# Customer minutes of Interruption Number of Customers

This ratio takes into account total outage minutes per customer, including those caused by supply (Code 2). A higher ratio can be caused by such things as severe weather or by lack of adequate responsiveness on the part of the LDC.

Although increasing in 2011, you are still below average and have a smaller number of outage minutes per customer than many participants.

## SR090: SAIFI: LDC Distribution System



SAIFI is defined as:

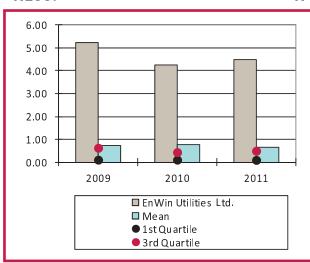
<u>Total Number of Customer Interruptions</u> Total Number of Customers

SAIFI is commonly used as a reliability indicator because it calculates the average number of interruptions that a customer would experience in a year. It is measured in units of interruptions per customer and it looks at the interruptions caused by the distribution system only. According to IEEE Standard 1366, the median value for North American utilities is approximately 1.10 interruptions per customer. Your 2011 results remain in the 3<sup>rd</sup> quartile similar to 2010. Your customers are experiencing more interruptions than the customers of most participants.





### CR100: Percent of Bills Cancelled and Re-issued

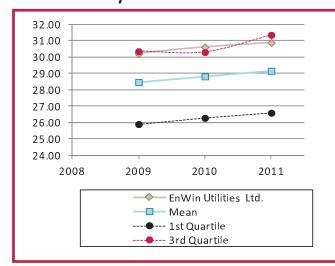


The calculation for this ratio is:

# Number of bills cancelled & reissued Total number of bills issued

In 2011, you are in the third quartile with regards to rate of bill cancellation and reissue. There is a risk with respect to billing and collection processes that may need to be addressed.

## S172: Monthly Bill for 1000kWh Residential Customers



This figure includes both customer and distribution charges.

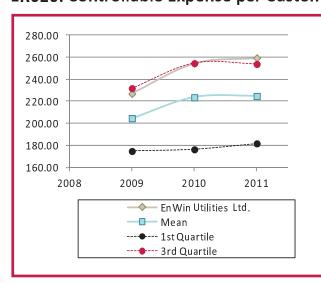
In 2011, you are at the 3<sup>rd</sup> quartile and consistent with previous years. Your customers are paying more per month than those of most participating utilities.





## 6. Efficiency

# ER020: Controllable Expense per Customer (\$)



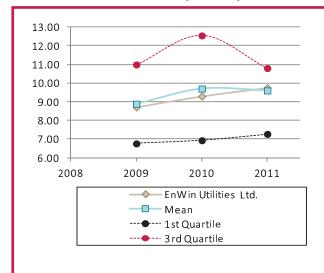
This ratio is defined as:

Controllable Costs

Total customers

This measure provides an indication of the utility's effectiveness in managing controllable costs. Your LDC has higher controllable expenses per customer than most participants in 2011 which is consistent over the period. This ratio can be influenced by customer density as well as the degree to which a utility provides various customer services. It can also be influenced by the age of the plant.

#### ER030: Controllable Expense per MWh Sold (\$)



This ratio is defined as:

Controllable Costs
Total MWh Billed

This measure provides an indication of the utility's effectiveness in managing controllable costs. Your LDC has average levels of controllable expenses per MWh billed in 2011, again consistent over the period.

As with ER020, this ratio can be influenced by customer density as well as the degree to which a utility provides various customer services. It can also be influenced by the age of the plant.



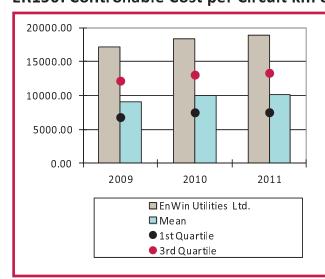
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43

# EnWin Utilities Ltd. 2011 Performance Scorecard



# ER150: Controllable Cost per Circuit km of Line

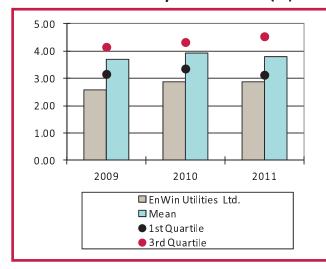


This ratio is defined as:

# <u>Controllable Costs</u> Total Circuit km of line

This measure provides an indication of the utility's effectiveness in managing controllable costs. In 2011, your LDC has a higher ratio of controllable costs per circuit km of line than the average participating utility. This ratio may be impacted by customer density and by the age of the plant.

# S238: Distribution System Losses (%)



This metric identifies the losses associated with providing electricity from generators to end-users.

Losses can be the result of technical deficiencies or theft of power.

In 2011 and consistent over the period, your LDC is reporting a smaller percent of losses than most of the survey participants.



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44

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC

15 of 15

# 2012UtilityPerformance ManagementSurvey







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EB-2019-003 Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 2 - Attachment 4 1 of 47



34 King Street East, Suite 600 Toronto, Ontario, M5C 2X8 elenchus.ca

# EnWin Utilities Scorecard Final 2016 Report

A Report Prepared by Elenchus Research Associates Inc.

06/10/2016

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 4 2 of 47

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Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 4 Scorecard Final Report

October 6, 2016



# BACKGROUND

Elenchus has incorporated full current set of Scorecards as published on the OEB website into this report. All LDCs are named on all tables in this report.

This has enabled us to add the following metrics:

- First Contact Resolution
- Customer Satisfaction Survey Results
- Level of Public Awareness
- Level of Compliance with Ontario Regulation 22/04
- Distribution System Plan Implementation Progress
- **Net Cumulative Energy Savings**
- Renewable Generation Connection Impact Assessments Completed On Time
- Profitability (Deemed)
- Return on Equity (Achieved)

This report focusses on ranking of metrics which are measured quantitatively. In the case of Level of Compliance with Ontario Regulation 22/04 and Distribution System Plan Implementation Progress, a majority of LDCs responded in a manner other than a completion percentage. To address this, the LDCs are grouped based on the manner of their response. To a much lesser extent, this was also true of First Contact Resolution and Customer Satisfaction Survey Results. In those cases, because quantitative data was reported by most LDCs, the tables are based on quantitative ranking and omit the minority of LDCs that did not report in that manner.

The comparison groupings are the same ones as in the prior report, issued in August. Size, defined as customer count was the metric used for grouping.

The metrics compared in the prior reports are restated in this report in order to capture the full set of LDCs and update for the final public information. As a result, this report supersedes previous reports for the following metrics:

- New Residences Connected on Time
- Scheduled Appointments Met On Time
- Telephone Calls Answered On Time
- Billing Accuracy
- Average Number of Hours that Power to a Customer is Interrupted
- Average Number Times that Power to a Customer is Interrupted
- The PEG Efficiency Assessment
- Total Cost per Customer
- Total Cost per Km of Line
- New Micro-embedded Generation Facilities Connected On Time
- Liquidity: Current Ratio (Current Assets / Current Liabilities)
- Leverage: Total Debt (includes shot-term and long-term debt)



EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC - 2 - 1 - SEC - 2 - Attachment 4 Scorecard Final Report

October 6, 2016

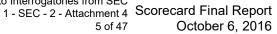
## 1.1 Additional Elenchus Support

The publishing of the second OEB mandated Scorecard for LDC's is a key element of an evolving regulatory process. There are growing expectations not only for LDC's to measure and continuously improve performance, but also to be able to demonstrate that the LDC's operating processes, corporate culture and governance support the RRFE objectives.

Elenchus has the skilled and experienced resources to assist you with this evolving process of integrating regulatory strategy into business solutions. Elenchus would be please to help you on a consulting basis, including the following:

- Providing additional data analysis, including expanded and targeted comparable groupings, rankings and historic trending to identify LDC's that have improved performance in metrics of interest;
- Assisting with the process of interpreting and learning from your Scorecard results; and
- Facilitating education and strategic planning to build on the management opportunities of using a Scorecard, such as these services Elenchus has delivered to LDC's of various sizes:
  - Workshops with LDC boards, executives, management and employees to understand and strategically plan for and implement the OEB's RRFE; and
  - Projects to integrate regulatory and business strategies for productivity, Scorecards, performance management, succession planning and management variable incentive pay.

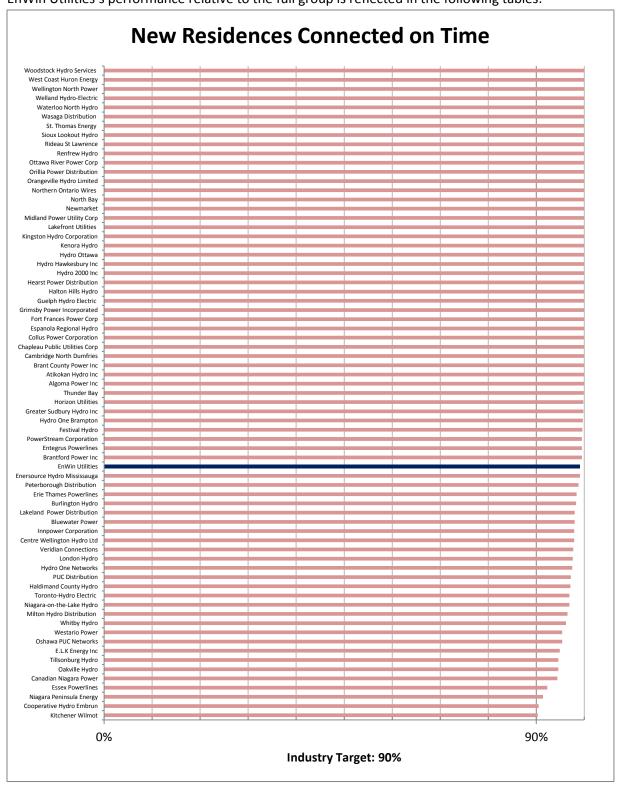
If this is of interest to you, please contact: Andrew Frank at 416-348-9917 x21, Anna Luciani-Marzo at 416-348-9917 x36, or Chris Hatley at 416-348-9917 x26.



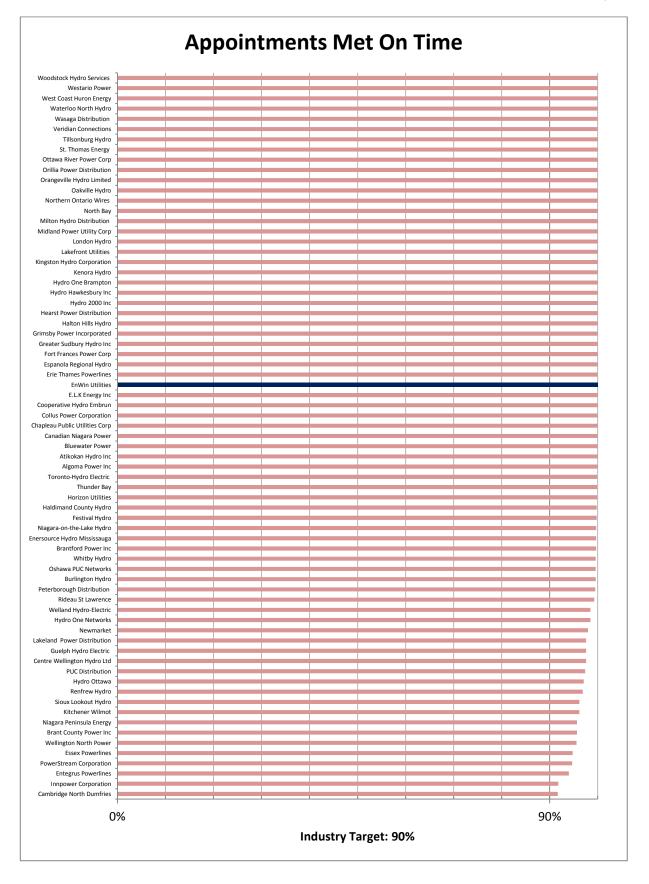


# 2 TABLES COMPARING ALL LDCs

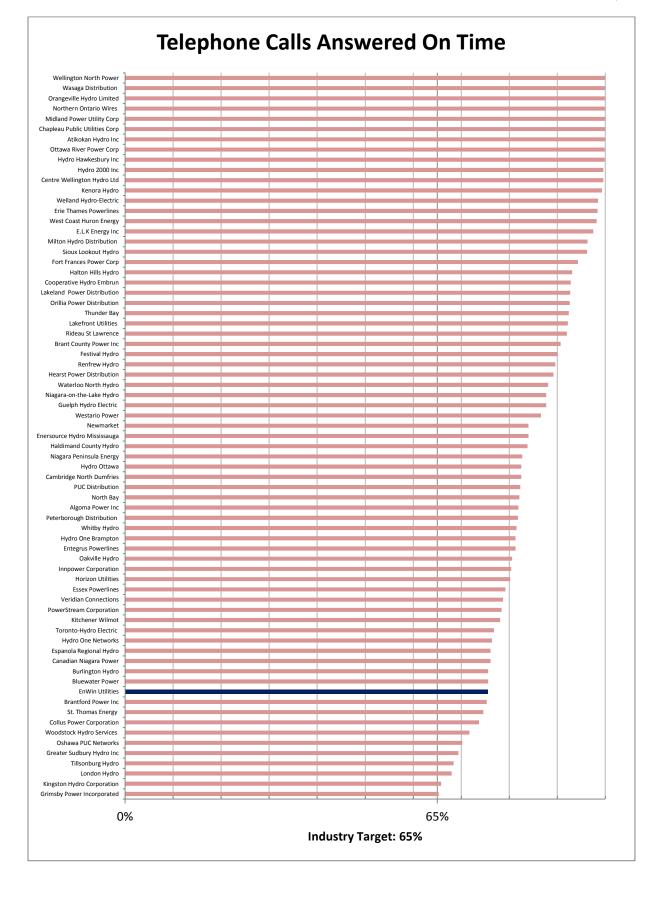
EnWin Utilities's performance relative to the full group is reflected in the following tables:



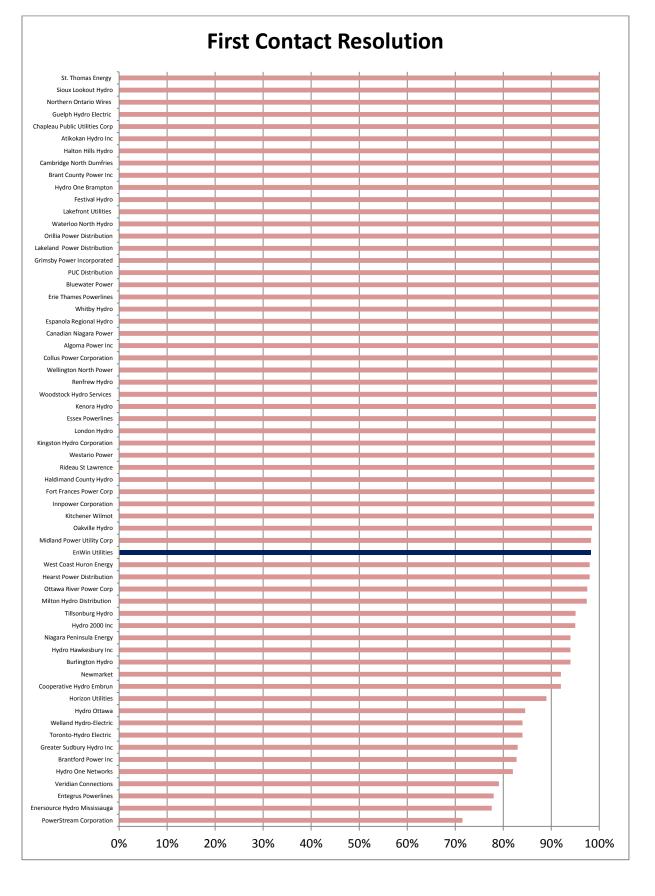








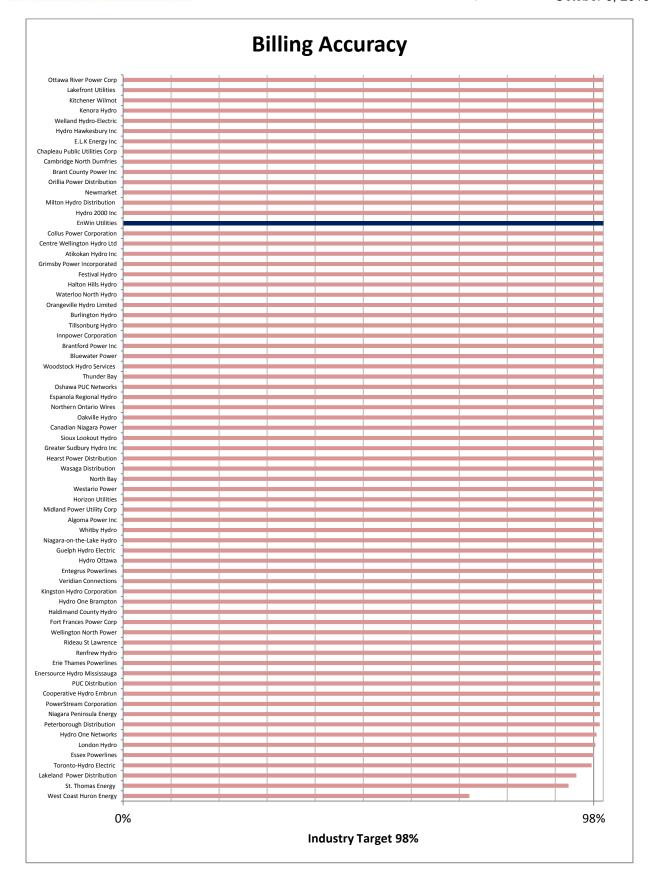




Responses to Interrogatories from SEC - 7 - 1 - SEC - 2 - Attachment 4 Scorecard Final Report 9 of 47

EB-2019-0032



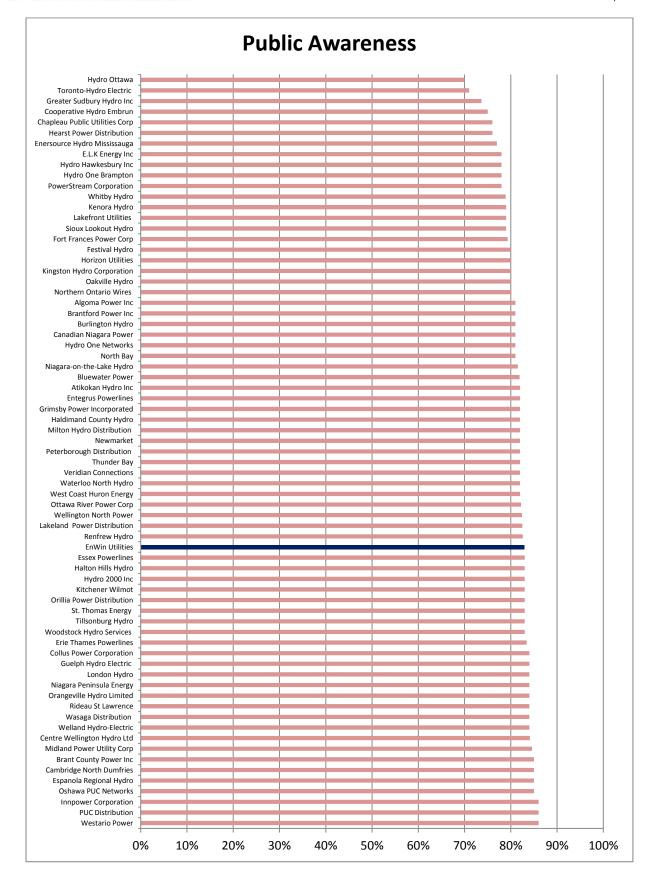






1 - SEC - 2 - Attachment 4 Scorecard Final Report 11 of 47





EB-2019-0032

Filed: August 1, 2019 Responses to Interrogatories from SEC - 10 - 1 - SEC - 2 - Attachment 4 Scorecard Final Report 12 of 47

October 6, 2016



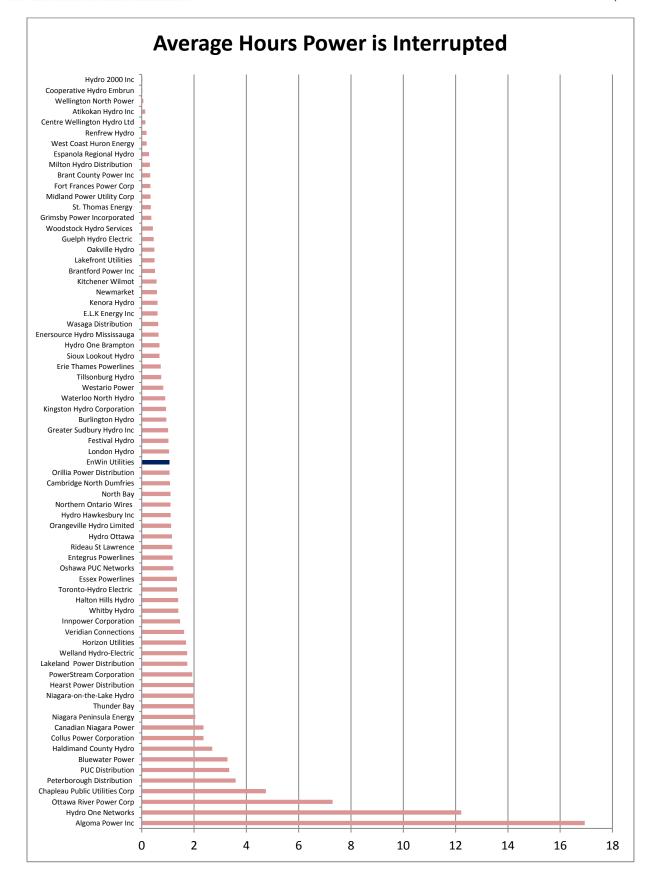
**Grimsby Power Incorporated** 

Tillsonburg Hydro Inc.

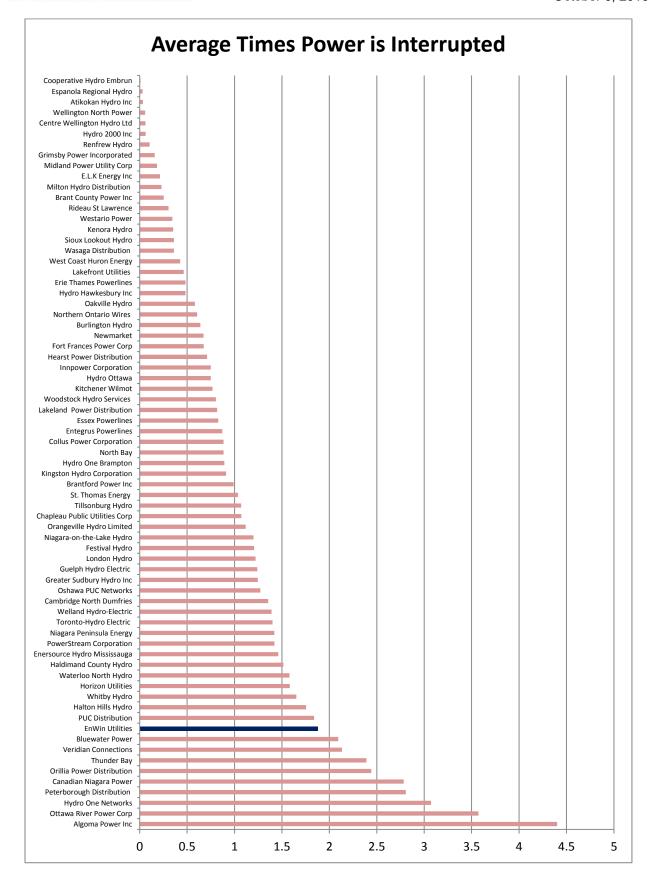
# Level of Compliance with Ontario Regulation 22/04

Atikokan Hydro Inc.  Bluewater Power Distribution Corporation  Brant County Power Inc.  Brantford Power Inc.  Burlington Hydro Inc.	Kitchener-Wilmot Hydro Inc. Lakefront Utilities Inc. Lakeland Power Distribution Ltd. London Hydro Inc. Midland Power Utility Corporation Milton Hydro Distribution Inc. Newmarket – Tay Power Distribution Ltd. Niagara Peninsula Energy Inc.
Atikokan Hydro Inc.  Bluewater Power Distribution Corporation  Brant County Power Inc.  Brantford Power Inc.  Burlington Hydro Inc.	Lakefront Utilities Inc.  Lakeland Power Distribution Ltd.  London Hydro Inc.  Midland Power Utility Corporation  Milton Hydro Distribution Inc.  Newmarket – Tay Power Distribution Ltd.
Bluewater Power Distribution Corporation  Brant County Power Inc.  Brantford Power Inc.  Burlington Hydro Inc.	Lakeland Power Distribution Ltd. London Hydro Inc. Midland Power Utility Corporation Milton Hydro Distribution Inc. Newmarket – Tay Power Distribution Ltd.
Brant County Power Inc.  Brantford Power Inc.  Burlington Hydro Inc.	London Hydro Inc. Midland Power Utility Corporation Milton Hydro Distribution Inc. Newmarket – Tay Power Distribution Ltd.
Brantford Power Inc.  Burlington Hydro Inc.	Midland Power Utility Corporation Milton Hydro Distribution Inc. Newmarket – Tay Power Distribution Ltd.
Burlington Hydro Inc.	Milton Hydro Distribution Inc.  Newmarket – Tay Power Distribution Ltd.
,	Newmarket – Tay Power Distribution Ltd.
	•
Cambridge and North Dumfries Hydro Inc.	Niagara Peninsula Energy Inc.
Centre Wellington Hydro Ltd.	
Chapleau Public Utilities Corporation	Niagara-on-the-Lake Hydro Inc.
Collus PowerStream Corporation	North Bay Hydro Distribution Limited
Cooperative Hydro Embrun Inc.	Northern Ontario Wires Inc.
E.L.K. Energy Inc.	Oakville Hydro Electricity Distribution Inc.
Enersource Hydro Mississauga Inc.	Orangeville Hydro Limited
Entegrus Powerlines Inc.	Orillia Power Distribution Corporation
EnWin Utilities Ltd.	Oshawa PUC Networks Inc.
Erie Thames Powerlines Corporation	Ottawa River Power Corporation
Espanola Regional Hydro Distribution Corporation	Peterborough Distribution Incorporated
Essex Powerlines Corporation F	PowerStream Inc.
Festival Hydro Inc.	PUC Distribution Inc.
Fort Frances Power Corporation	Renfrew Hydro Inc.
Greater Sudbury Hydro Inc.	Rideau St. Lawrence Distribution Inc.
Guelph Hydro Electric Systems Inc.	Sioux Lookout Hydro Inc.
Haldimand County Hydro Inc.	St. Thomas Energy Inc.
Halton Hills Hydro Inc.	Thunder Bay Hydro Electricity Distribution Inc.
Hearst Power Distribution Company Limited	Toronto Hydro-Electric System Limited
Horizon Utilities Corporation	Veridian Connections Inc.
Hydro 2000 Inc.	Wasaga Distribution Inc.
Hydro Hawkesbury Inc.	Waterloo North Hydro Inc.
Hydro One Brampton Networks Inc.	Welland Hydro-Electric System Corp.
Hydro One Networks Inc.	Wellington North Power Inc.
Hydro Ottawa Limited	West Coast Huron Energy Inc.
Innpower Corporation	Westario Power Inc.
Kenora Hydro Electric Corporation Ltd.	Whitby Hydro Electric Corporation
Kingston Hydro Corporation	Woodstock Hydro Services Inc.
Needs Improvement	
Canadian Niagara Power Inc.	







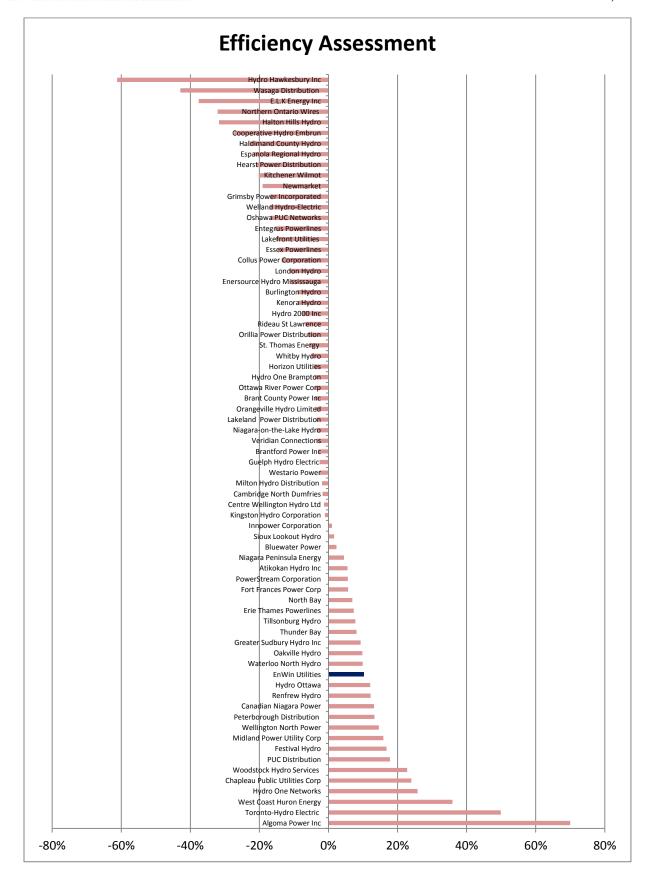




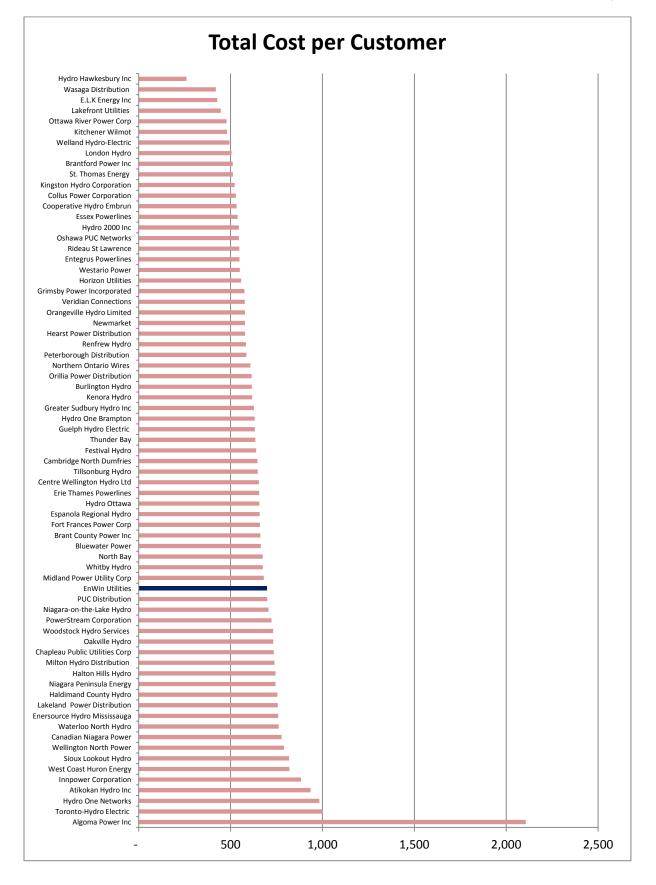


Enersource Hydro Mississauga 126% Algoma Power Inc. Horizon Utilities 121.17% Canadian Niagara Power Inc. Waterloo North Hydro 119.44% Lakefront Utilities Hydro One Networks 116% Wasaga Distribution Festival Hydro Inc. 107.67% Established Essex Powerlines 107% Hearst Power Distribution Company Limited Orangeville Hydro Limited 101% Excellent Whitby Hydro 100.98% Northern Ontario Wires Entegrus Powerlines Inc. 100% OEB Approved Peterborough Distribution 100% Ottawa River Power Corporation St. Thomas Energy 100% On Target Toronto Hydro-Electric System Limited 100% Atlokan Hydro Inc. HowerStream Corporation 99.8% Haldimand County Hydro Inc. Guelph Hydro Electric 99.34% On Track Newmarket 99% Burlington Hydro Oshawa PUC Networks 99% Espanola Regional Hydro Entwin Utilities Itd. 96% Halton Hills Hydro Niagara Peninsula Energy 94.55% Kingston Hydro Corporation North Bay 94% Olakville Hydro Electricity Distribution Inc. Hydro Ottawa 94% Oakville Hydro Electricity Distribution Inc. North Bay 94% Olakville Hydro Electricity Distribution Inc. Thunder Bay Hydro Electricity Distribution North Bay 94% Sioux Lookout Hydro Electricity Distribution Welland Power Utility Corp 93.75% Welland Hydro Electricity Distribution Niagara-on-the-Lake Hydro 89% In Progress Centre Wellington Hydro Inc Ringara-on-the-Lake Hydro 88% Sioux Lookout Hydro Embrun Grimsby Power Incorporated 84% EL.K. Energy Inc. Hydro Hower Utilities Corp 50% Lakeland Power Corporation Greater Sudbury Hydro Inc Ringer Hydro Rembrun Electric Corporation Ltd. Kitchener-Wilmot Hydro Inc. Hydro Hawkesbury Inc. Inspower Corporation Ltd. London Hydro Electric Corporation Ltd. Kitchener-Wilmot Hydro Inc. Hydro Hydro Disc. Undon Hydro Power Inc.  Power Hydro Disc Distribution Corporation PUC Distribution Inc. Tillsonburg Hydro Inc.  Westario Power Inc.  PUC Distribution Inc. Tillsonburg Hydro Inc. Westario Power Inc. Westario Power Inc.  Not Available Wellington North Power Inc.	Distribution System Plan Implementation Progress			
Horizon Utilities 121.17% Canadian Niagara Power Inc. Waterloo North Hydro 119.44% Lakefront Utilities Hydro One Networks 116% Wasaga Distribution Festival Hydro Inc. 107.67% Established Essex Powerlines 107% Hearst Power Distribution Company Limited Whitby Hydro 100.98% Northern Ontario Wires Entegrus Powerlines Inc. 100% OBB Approved Entegrus Powerlines Inc. 100% OT arget Toronto Hydro-Electric System Limited 100% Atikokan Hydro Inc. Power Stream Corporation 99.8% Haidimand County Hydro Inc. Guelph Hydro Electric System Limited 100% Atikokan Hydro Inc. Guelph Hydro Electric 99.34% Northern Ontario Wires Enwin Utilities Ltd. 96% Hailon Hydro Enwin Utilities Ltd. 96% Hailon Hydro Enwin Utilities Ltd. 96% Hailon Hydro Espanola Regional Hydro Enwin Utilities Ltd. 96% Hailon Hydro Corporation Wires Powerlines 94% Milton Hydro Distribution North Bay 94% Oakville Hydro Electricity Distribution North Bay 94% Thunder Bay Hydro Electricity Distribution North Bay 94% Welland Hydro-Electricity Distribution Midland Power Utility Corp 93.75% Welland Hydro-Electricity Distribution Midland Power Utility Corp 93.75% Welland Hydro-Electricity Distribution Midland Power Utility Corp 89% Sioux Lookout Hydro Inc. North Bay Sioux Lookout Hydro Inc. Niagara-on-the-Lake Hydro 89% Sioux Lookout Hydro Inc. Niagara-on-the-Lake Hydro 89% Cooperative Hydro Ender Wellington Hydro Inc. Niagara-on-the-Lake Hydro 75% Kenora Hydro Electric Corporation Greater Sudbury Hydro Inc 80.9% In Progress  Greater Sudbury Hydro Inc 80.9% In Progress  Fenfrew Hydro 75% Kenora Hydro Electric Corporation Ltd. West Coast Huron Energy 74% Kitchener-Wilmot Hydro Inc.  Hydro Distribution Corporation PuC Distribution Corporation  Above Budget Public Utilities Corp 49.8% Woodstock Hydro Services Inc.  Blewater Power Distribution Corporation PuC Distribution Inc.  Not Available  DSP Filed Woodstock Hydro Servi	Percentage		Completed	
Waterloo North Hydro 119.44%	Enersource Hydro Mississauga	126%	Algoma Power Inc.	
Hydro One Networks	Horizon Utilities	121.17%	Canadian Niagara Power Inc.	
Festival Hydro Inc.   107.67%   Established   107%   Hearst Power Distribution Company Limited   107%   Escellent   107%   Excellent   107%   OFB Approved   100.98%   Northern Ontario Wires   100%   OFB Approved   100%   OTTAGE   100%   OTTAGE   100%   OTTAGE   100%   100%   OTTAGE   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   10	Waterloo North Hydro	119.44%	Lakefront Utilities	
Festival Hydro Inc.   107.67%   Established   107%   Hearst Power Distribution Company Limited   107%   Escellent   107%   Excellent   107%   OFB Approved   100.98%   Northern Ontario Wires   100%   OFB Approved   100%   OTTAGE   100%   OTTAGE   100%   OTTAGE   100%   100%   OTTAGE   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   10	Hydro One Networks	116%	Wasaga Distribution	
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Peterborough Distribution St. Thomas Energy 100% St. Thomas Energy 100% Atikokan Hydro Inc. PowerStream Corporation 99.8% Haldimand County Hydro Inc. Guelph Hydro Electric System Limited 99.8% On Track Newmarket 99% Burlington Hydro Oshawa PUC Networks 99% EnWin Utilities Ltd. 96% Halton Hills Hydro Finames Powerlines 94.55% Kingston Hydro Corporation Milton Hydro Electricity Distribution Hydro Ottawa 94% Oakville Hydro Electricity Distribution North Bay 14,40 Mildland Power Utility Corp Hydro One Brampton 92.3% Stage 2 Centre Wellington Hydro Ltd Niagara-on-the-Lake Hydro Sreater Sudbury Hydro Inc Sreater Sudbury Hydro Inc Sreater Sudbury Hydro Sreater Sudbury Hydro Inc Sreater Sudbury Hydro Sreater Sudbury Sreater Sudbury Sreater Sudbury Sreater Sudbury Sreate	Whitby Hydro	100.98%	Northern Ontario Wires	
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PowerStream Corporation 99.8% Haldimand County Hydro Inc.  Guelph Hydro Electric 99.34% On Track  Newmarket 99% Burlington Hydro Oshawa PUC Networks 99% Espanola Regional Hydro EnWin Utilities Ltd. 96% Halton Hills Hydro Niagara Peninsula Energy 94.55% Kingston Hydro Corporation Frie Thames Powerlines 94% Milton Hydro Distribution Hydro Ottawa 94% Oakville Hydro Electricity Distribution Midland Power Utility Corp 93.75% Welland Hydro-Electricity Distribution Midland Power Utility Corp 93.75% Welland Hydro-Electric System Corp.  Hydro One Brampton 92.3% Stage 2  Centre Wellington Hydro Ltd 89% Sioux Lookout Hydro Inc. Niagara-on-the-Lake Hydro 89% In Progress Veridian Connections 88.45% Collus Power Corporation Greater Sudbury Hydro Inc 87.4% Cooperative Hydro Embrun Grimsby Power Incorporated 84% E.L.K Energy Inc. Rideau St Lawrence 83% Hydro Hawkesbury Inc. Brantford Power Inc Brantford Power Inc Renfrew Hydro 75% Kenora Hydro Electric Corporation Ltd. West Coast Huron Energy 74% Kitchener-Wilmot Hydro Inc. Chapleau Public Utilities Corp 50% Lakeland Power Distribution Ltd. London Hydro Inc.  Hydro 2000 Inc 30% Orillia Power Distribution Corporation  Above Budget Bluewater Power Distribution Corporation Tillsonburg Hydro Inc.  Hydro Abavialable Westario Power Inc.  Not Available Westlington North Power Inc.  Behind Plan	St. Thomas Energy	100%	On Target	
Guelph Hydro Electric  Newmarket  99%  Burlington Hydro  Shawa PUC Networks  99%  Espanola Regional Hydro  Espanola Regional Hydro  Burlington Hydro  Espanola Regional Hydro  Halton Hills Hydro  Kingston Hydro Corporation  Kingston Hydro Corporation  Kingston Hydro Corporation  Milton Hydro Distribution  Hydro Ottawa  94%  North Bay  Milton Hydro Electricity Distribution  Morth Bay  Morth Bay  Midland Power Utility Corp  93.75%  Welland Hydro Electricity Distribution  Welland Pydro Electricity Distribution  Welland Hydro Electricity Distribution  Midland Power Utility Corp  93.75%  Welland Hydro Electric System Corp.  In Progress  Veridian Connections  88.45%  Collus Power Corporation  Graeter Sudbury Hydro Inc  87.4%  Coperative Hydro Embrun  E.L.K Energy Inc.  Hydro Hawkesbury Inc.  Brantford Power Inc  80.9%  Innpower Corporation  Kenora Hydro Electric Corporation Ltd.  Kitchener-Wilmot Hydro Inc.  West Coast Huron Energy  74%  Kitchener-Wilmot Hydro Inc.  Lakeland Power Distribution Ltd.  London Hydro Inc.  Hydro 2000 Inc  30%  Orillia Power Distribution Corporation  PUC Distribution Inc.  Tillsonburg Hydro Inc.  Westario Power Inc.  Not Available  Woodstock Hydro Services Inc.  Behind Plan	Toronto Hydro-Electric System Limited	100%	Atikokan Hydro Inc.	
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Oshawa PUC Networks       99%       Espanola Regional Hydro         EnWin Utilities Ltd.       96%       Halton Hills Hydro         Niagara Peninsula Energy       94.55%       Kingston Hydro Corporation         Erie Thames Powerlines       94%       Milton Hydro Distribution         Hydro Ottawa       94%       Oakville Hydro Electricity Distribution Inc.         North Bay       94%       Thunder Bay Hydro Electricity Distribution Inc.         Midland Power Utility Corp       93.75%       Welland Hydro-Electric System Corp.         Hydro One Brampton       92.3%       Stage 2         Centre Wellington Hydro Ltd       89%       Sioux Lookout Hydro Inc.         Niagara-on-the-Lake Hydro       89%       In Progress         Veridian Connections       88.45%       Collus Power Corporation         Greater Sudbury Hydro Inc       87.4%       Cooperative Hydro Embrun         Grimsby Power Incorporated       84%       E.L.K Energy Inc.         Brantford Power Inc       80.9%       Innpower Corporation         Renfrew Hydro       75%       Kenora Hydro Electric Corporation Ltd.         West Coast Huron Energy       74%       Kitchener-Wilmot Hydro Inc.         Chapleau Public Utilities Corp       50%       Lakeland Power Distribution Corporation         Hy	Guelph Hydro Electric	99.34%	On Track	
EnWin Utilities Ltd. 96% Halton Hills Hydro  Niagara Peninsula Energy 94.55% Kingston Hydro Corporation  Erie Thames Powerlines 94% Milton Hydro Distribution  Hydro Ottawa 94% Oakville Hydro Electricity Distribution Inc.  North Bay 94% Thunder Bay Hydro Electricity Distribution  Midland Power Utility Corp 93.75% Welland Hydro-Electric System Corp.  Hydro One Brampton 92.3% Stage 2  Centre Wellington Hydro Ltd 89% Sioux Lookout Hydro Inc.  Niagara-on-the-Lake Hydro 89% In Progress  Veridian Connections 88.45% Collus Power Corporation  Greater Sudbury Hydro Inc 87.4% Cooperative Hydro Embrun  Grimsby Power Incorporated 84% E.L. K Energy Inc.  Rideau St Lawrence 83% Hydro Hawkesbury Inc.  Innpower Corporation  Renfrew Hydro 75% Kenora Hydro Electric Corporation Ltd.  West Coast Huron Energy 74% Kitchener-Wilmot Hydro Inc.  Chapleau Public Utilities Corp 50% Lakeland Power Distribution Ltd.  Fort Frances Power Corp 49.8% London Hydro Inc.  Above Budget  Bluewater Power Distribution Corporation  Read of Plan  Brant County Power Inc.  DSP Filed  Weodstock Hydro Services Inc.  Behind Plan	Newmarket	99%	Burlington Hydro	
Niagara Peninsula Energy P4.55% Erie Thames Powerlines P4% Hydro Ottawa P4% North Bay P4% Milton Hydro Distribution Oakville Hydro Electricity Distribution North Bay P4% Midland Power Utility Corp P3.75% Welland Hydro-Electric System Corp. Welland Hydro-Electric System Corp. Welland Hydro-Electric System Corp.  Niagara-on-the-Lake Hydro Pveridian Connections S8.45% Veridian Connections S8.45% Collus Power Corporation Greater Sudbury Hydro Inc S7.4% Cooperative Hydro Embrun Grimsby Power Incorporated S8.4% E.L.K Energy Inc. Rideau St Lawrence S3% Hydro Hawkesbury Inc. Innpower Corporation Renfrew Hydro Power Inc Renfrew Hydro Power Inc Renfrew Hydro Power Locast Huron Energy P4% Kitchener-Wilmot Hydro Inc. Lakeland Power Distribution Ltd. London Hydro Inc. Orillia Power Distribution Corporation PUC Distribution Inc. Tillsonburg Hydro Inc. Westario Power Inc.  Puc Distribution Inc. Tillsonburg Hydro Inc. Westario Power Inc.  Not Available  Weodstock Hydro Services Inc.  Behind Plan  Wellington North Power Inc.  Behind Plan	Oshawa PUC Networks	99%	Espanola Regional Hydro	
Erie Thames Powerlines 94% Milton Hydro Distribution Hydro Ottawa 94% Oakville Hydro Electricity Distribution Inc. North Bay 94% Thunder Bay Hydro Electricity Distribution Midland Power Utility Corp 93.75% Welland Hydro-Electric System Corp. Hydro One Brampton 92.3% Stage 2  Centre Wellington Hydro Ltd 89% Sioux Lookout Hydro Inc. Niagara-on-the-Lake Hydro 89% In Progress Veridian Connections 88.45% Collus Power Corporation Greater Sudbury Hydro Inc 87.4% Cooperative Hydro Embrun Grimsby Power Incorporated 84% E.L.K Energy Inc. Rideau St Lawrence 83% Hydro Hawkesbury Inc. Innpower Corporation Renfrew Hydro 75% Kenora Hydro Electric Corporation Ltd. West Coast Huron Energy 74% Kitchener-Wilmot Hydro Inc. Chapleau Public Utilities Corp 50% Lakeland Power Distribution Ltd. Fort Frances Power Corp 49.8% London Hydro Inc. Hydro 2000 Inc 30% Orillia Power Distribution Corporation Above Budget Bluewater Power Distribution Corporation Tillsonburg Hydro Inc.  Ahead of Plan  Brant County Power Inc.  Wellington North Power Inc.  Behind Plan  Milton Hydro Electricity Distribution Inc. Tillsonburg Hydro Inc. Westario Power Inc.  Behind Plan  Milton Hydro Electricity Distribution Inc. Tillsonburg Hydro Inc.  Mediand Hydro Electric Corporation  Not Available Woodstock Hydro Services Inc.	EnWin Utilities Ltd.	96%	Halton Hills Hydro	
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North Bay Midland Power Utility Corp Hydro One Brampton 92.3% Stage 2 Centre Wellington Hydro Ltd Niagara-on-the-Lake Hydro Veridian Connections 88.45% Greater Sudbury Hydro Inc 87.4% Cooperative Hydro Enbrun Grimsby Power Incorporated 84% E.L.K Energy Inc. Brantford Power Inc Nest Coast Huron Energy Chapleau Public Utilities Corp Hydro 2000 Inc  Above Budget Brant County Power Inc. Brant County Power Inc Brant County Power Inc.  Mest Coast Huron Energy The Mydro Hydro Inc Some Distribution Corporation  Above Budget Brant County Power Inc Brant County Power Inc Brant County Power Inc.  West Coast Hydro Electric Corporation Ltd. Kitchener-Wilmot Hydro Inc. Lakeland Power Distribution Ltd. Corporation Fullian Power Distribution Corporation Fullian Power Distribution Corporation Fullian Power Distribution Inc. Tillsonburg Hydro Inc. Westario Power Inc.  Not Available  Woodstock Hydro Services Inc.  Behind Plan		94%	Milton Hydro Distribution	
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Stage 2	Midland Power Utility Corp	93.75%	Welland Hydro-Electric System Corp.	
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Niagara-on-the-Lake Hydro 89% In Progress  Veridian Connections 88.45% Collus Power Corporation  Greater Sudbury Hydro Inc 87.4% Cooperative Hydro Embrun  Grimsby Power Incorporated 84% E.L.K Energy Inc.  Rideau St Lawrence 83% Hydro Hawkesbury Inc.  Brantford Power Inc 80.9% Innpower Corporation  Renfrew Hydro 75% Kenora Hydro Electric Corporation Ltd.  West Coast Huron Energy 74% Kitchener-Wilmot Hydro Inc.  Chapleau Public Utilities Corp 50% Lakeland Power Distribution Ltd.  Fort Frances Power Corp 49.8% London Hydro Inc.  Hydro 2000 Inc 30% Orillia Power Distribution Corporation  Above Budget  Bluewater Power Distribution Corporation  Ahead of Plan  Brant County Power Inc.  DSP Filed  Woodstock Hydro Services Inc.  Behind Plan	Centre Wellington Hydro Ltd	89%	Sioux Lookout Hydro Inc.	
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Chapleau Public Utilities Corp 50% Lakeland Power Distribution Ltd.  Fort Frances Power Corp 49.8% London Hydro Inc.  Hydro 2000 Inc 30% Orillia Power Distribution Corporation  Above Budget PUC Distribution Inc.  Bluewater Power Distribution Corporation Tillsonburg Hydro Inc.  Ahead of Plan Westario Power Inc.  Brant County Power Inc.  Not Available  DSP Filed Woodstock Hydro Services Inc.  Wellington North Power Inc.  Behind Plan	Renfrew Hydro	75%	Kenora Hydro Electric Corporation Ltd.	
Fort Frances Power Corp 49.8%  Hydro 2000 Inc 30%  Orillia Power Distribution Corporation  PUC Distribution Inc.  Bluewater Power Distribution Corporation  Tillsonburg Hydro Inc.  Westario Power Inc.  Not Available  DSP Filed  Woodstock Hydro Services Inc.  Behind Plan	West Coast Huron Energy	74%	Kitchener-Wilmot Hydro Inc.	
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Hydro 2000 Inc 30% Orillia Power Distribution Corporation  Above Budget PUC Distribution Inc.  Bluewater Power Distribution Corporation Tillsonburg Hydro Inc.  Ahead of Plan Westario Power Inc.  Brant County Power Inc.  Not Available  DSP Filed Woodstock Hydro Services Inc.  Wellington North Power Inc.  Behind Plan	· · · · · · · · · · · · · · · · · · ·	49.8%	London Hydro Inc.	
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	Wellington North Power Inc.			
Cambridge and North Dumtries Hydro Inc.	-		Cambridge and North Dumfries Hydro Inc.	

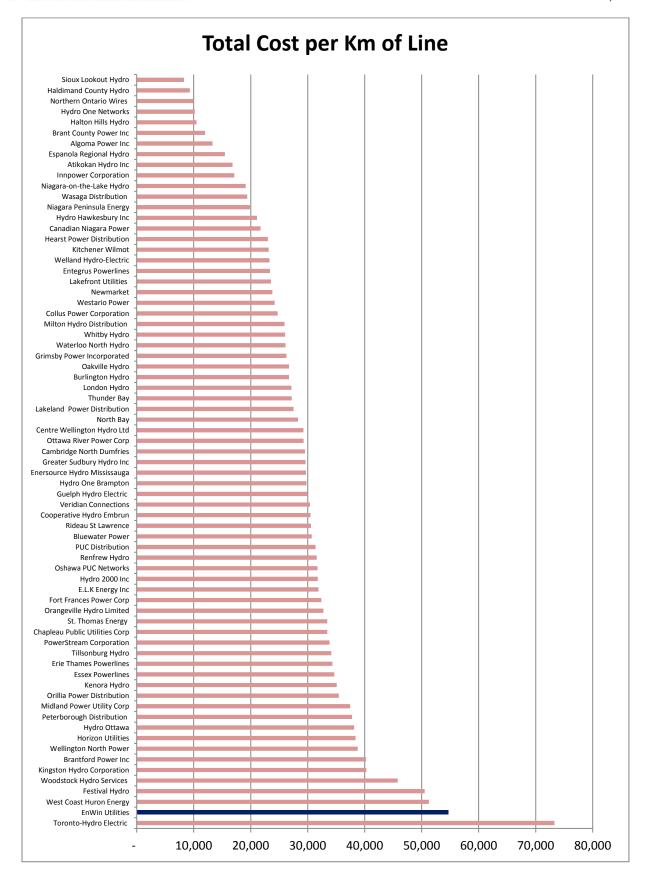




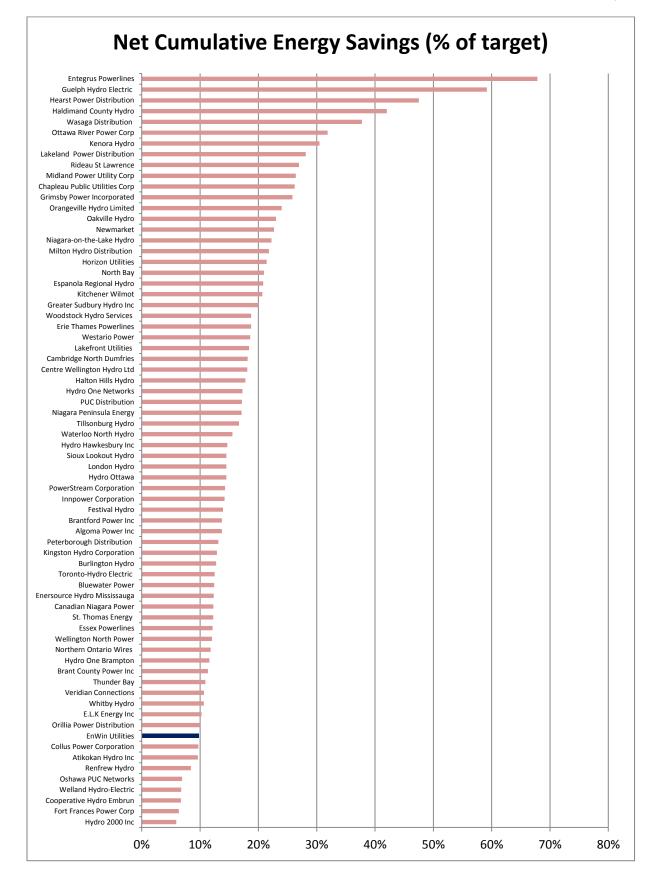




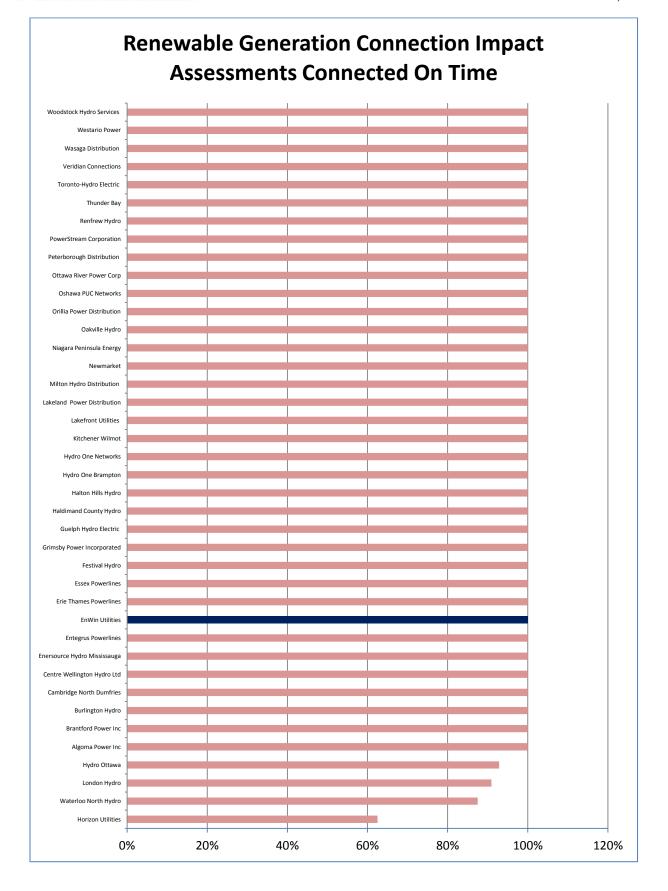










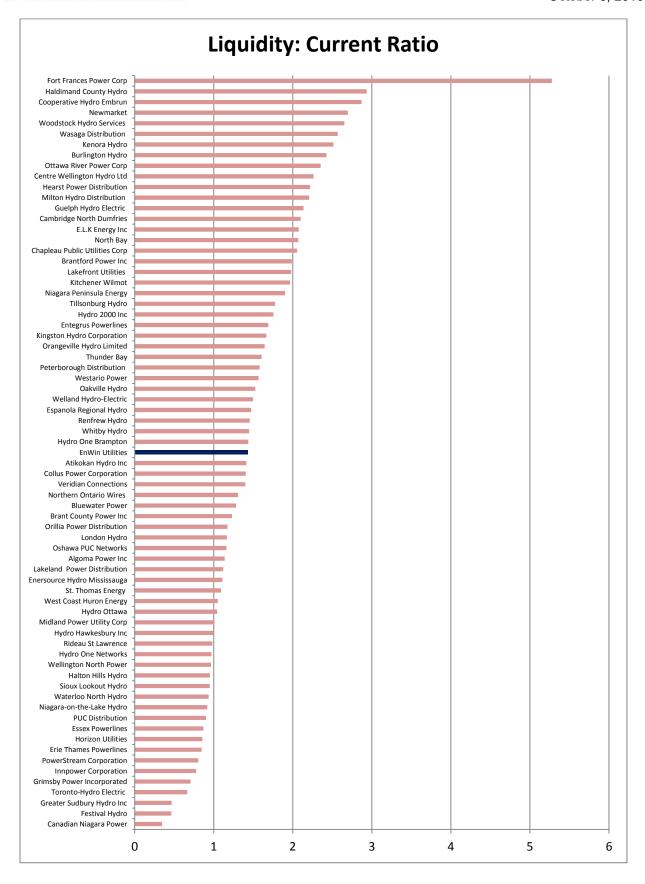




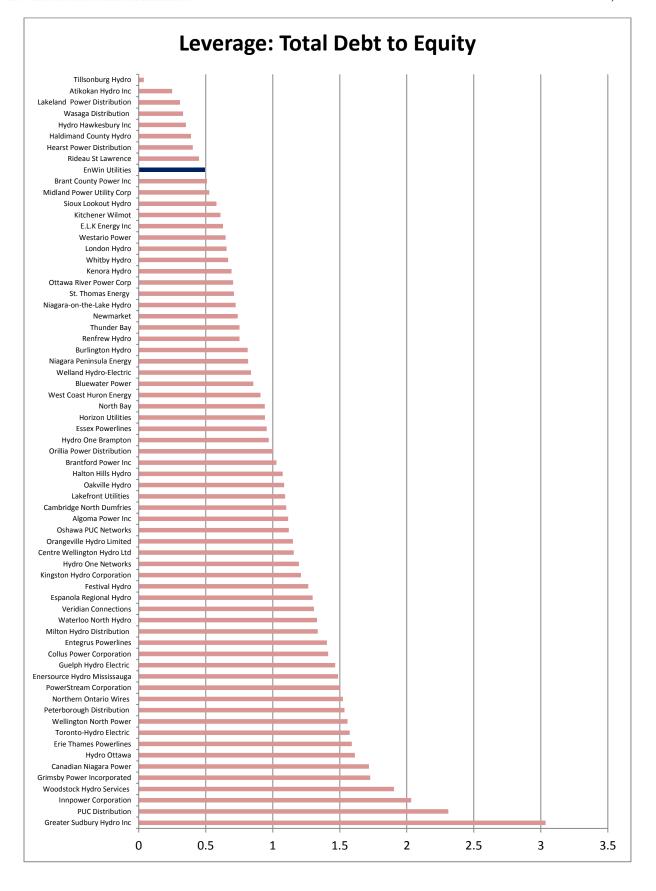




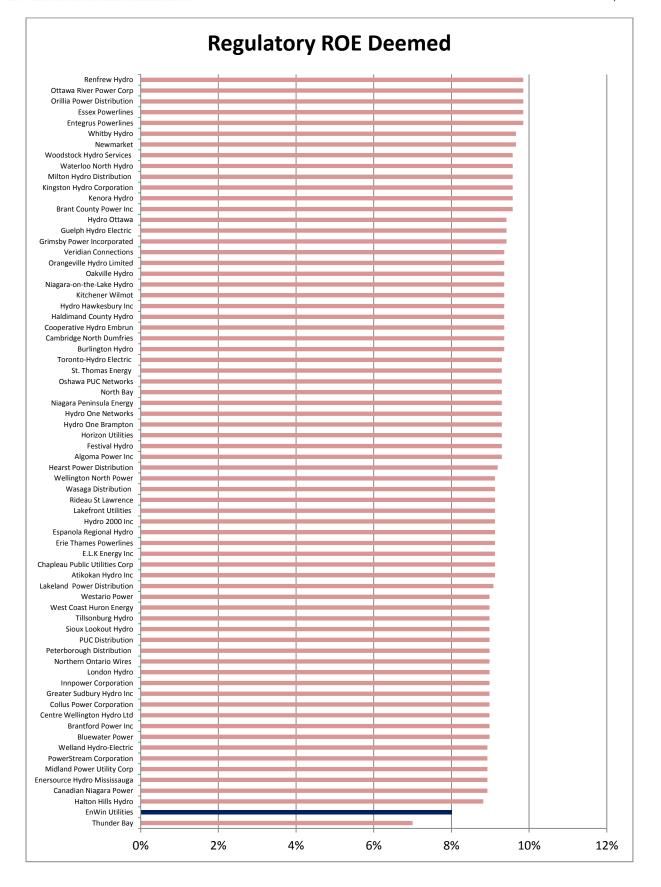




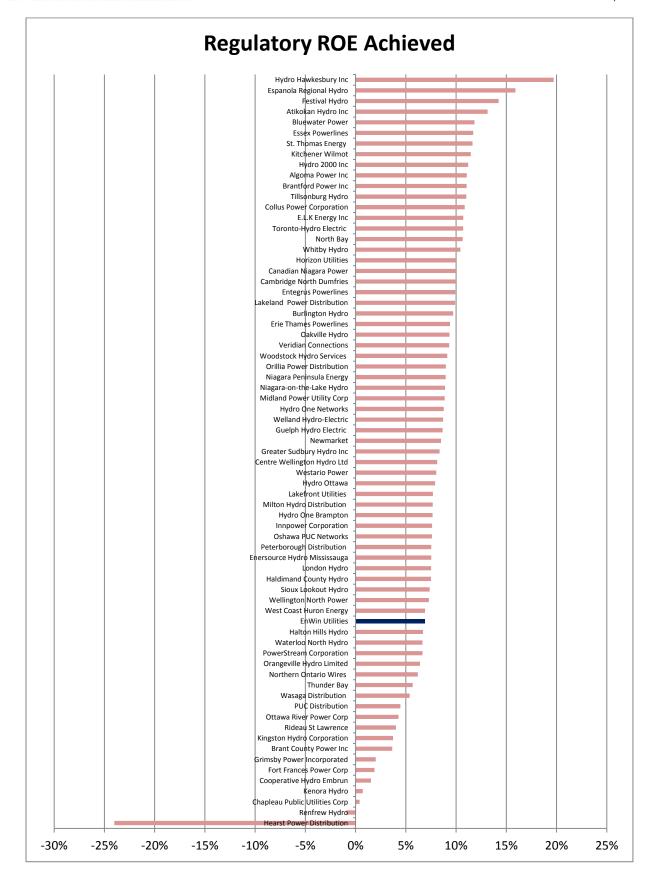


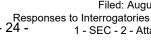


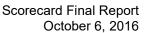








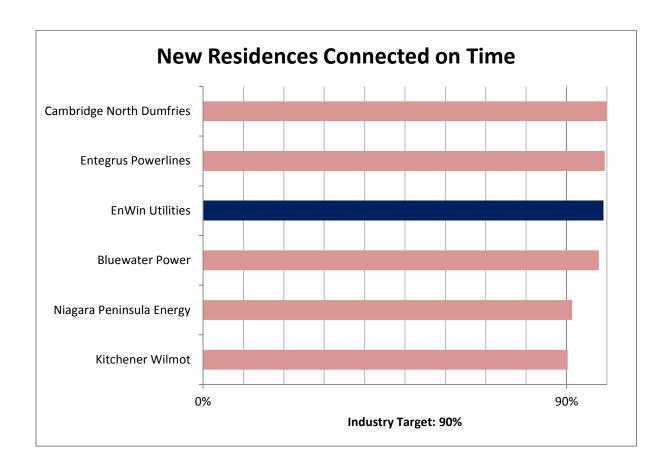




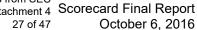


## TABLES COMPARING SIMILAR CUSTOMER COUNT LDCs

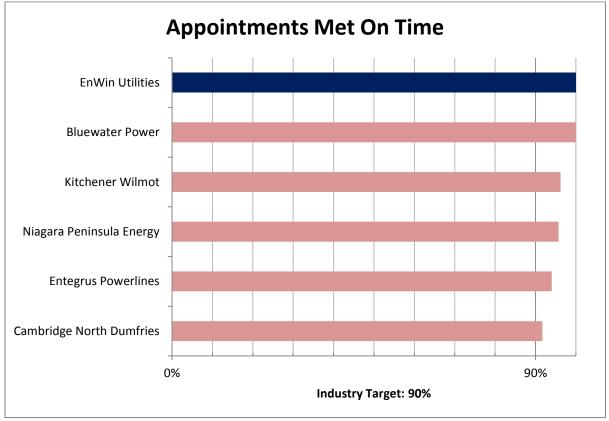
EnWin Utilities was compared to the following LDCs which have a similar number of customers: Entegrus Powerlines, Bluewater Power, Niagara Peninsula Energy, Kitchener Wilmot, and Cambridge North Dumfries.

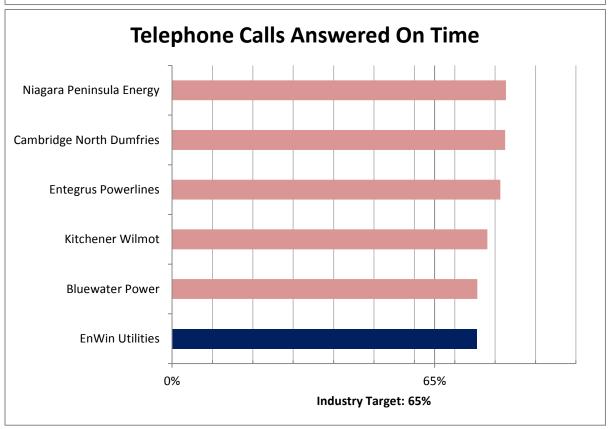






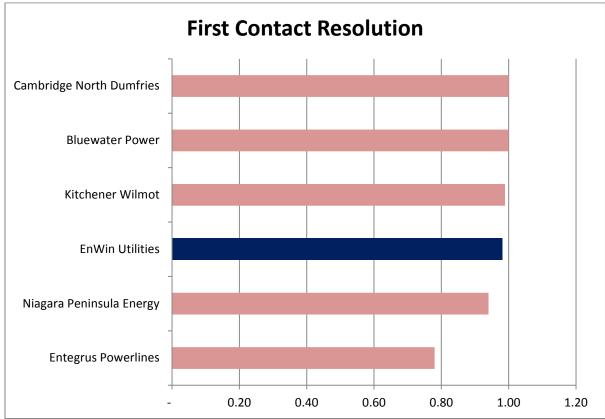


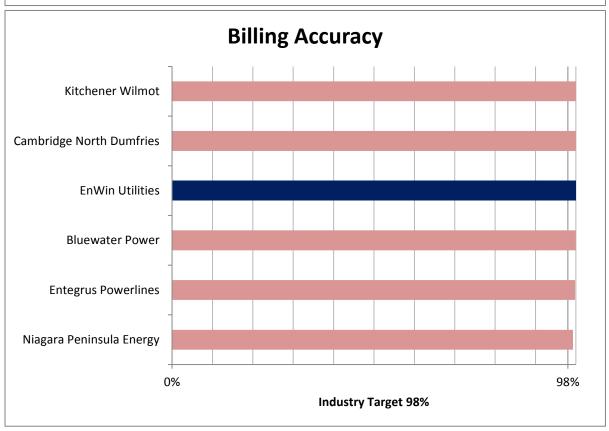




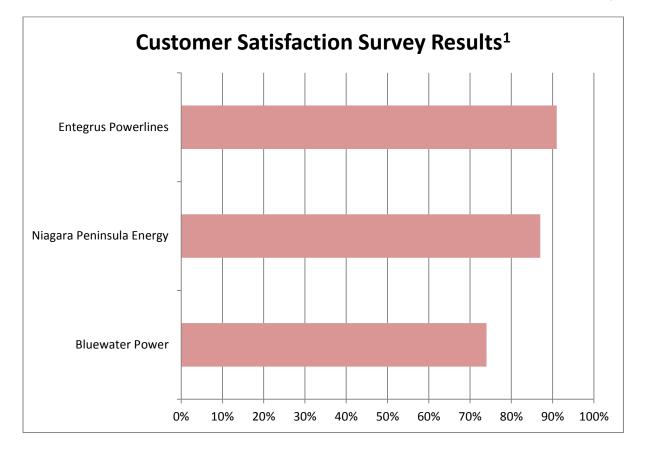










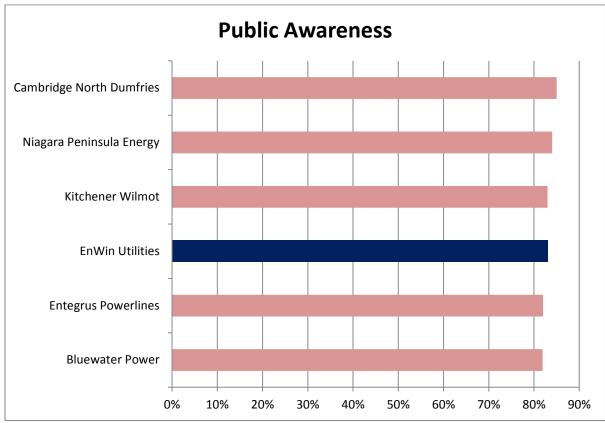


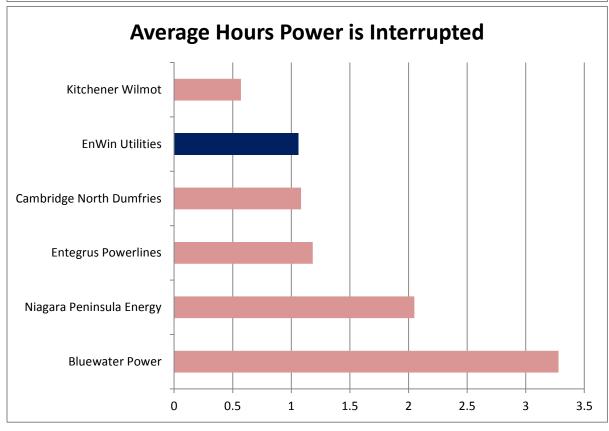
#### Note:

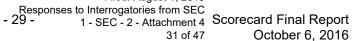
1. Customer Satisfaction Survey Results for Cambridge North Dumfries and Kitchener Wilmot are "A" and EnWin Utilities is "Good".



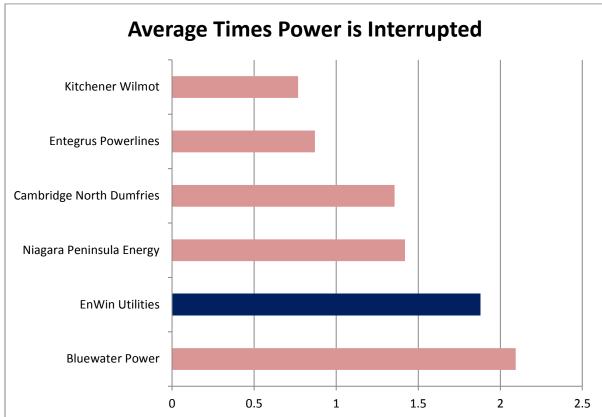


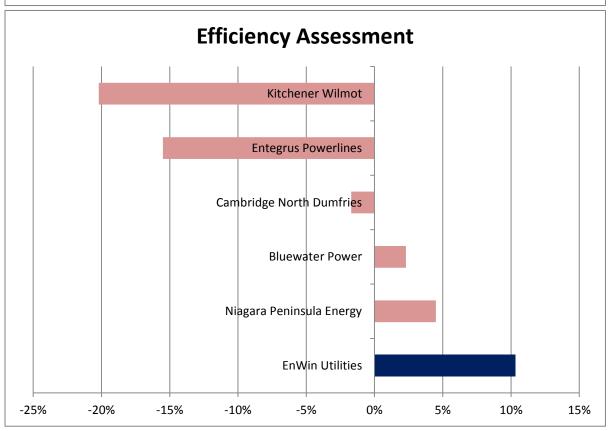


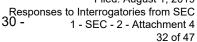




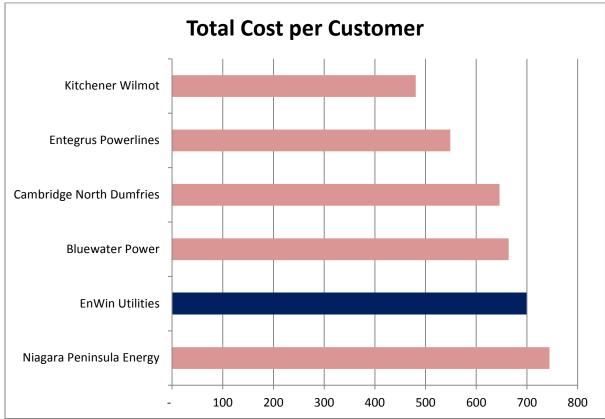


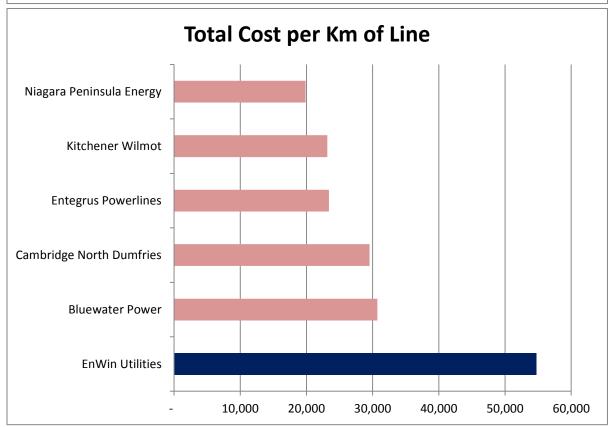


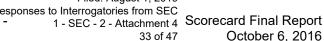




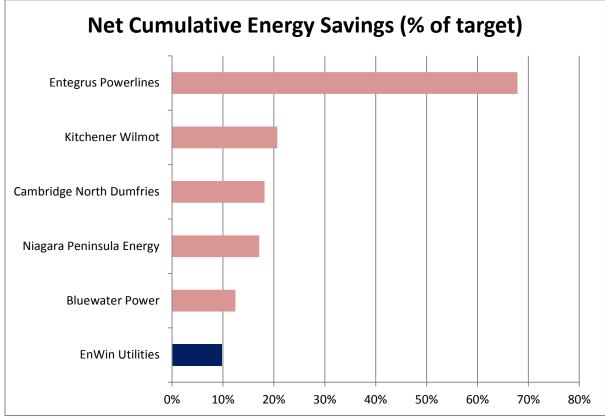


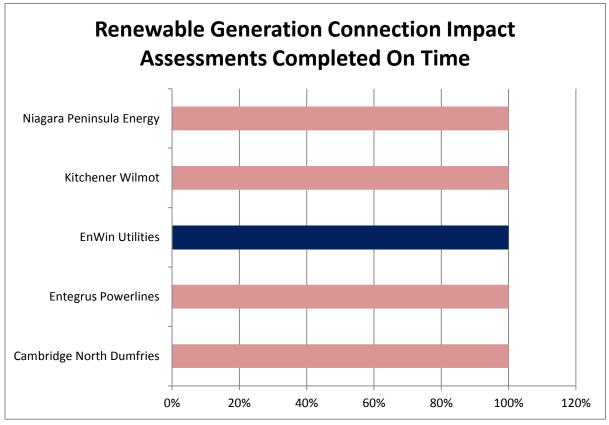




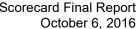




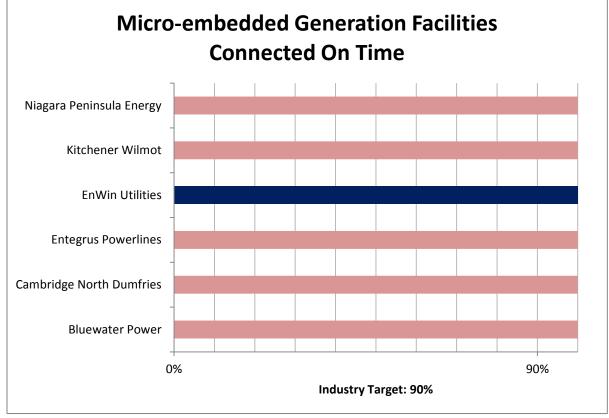


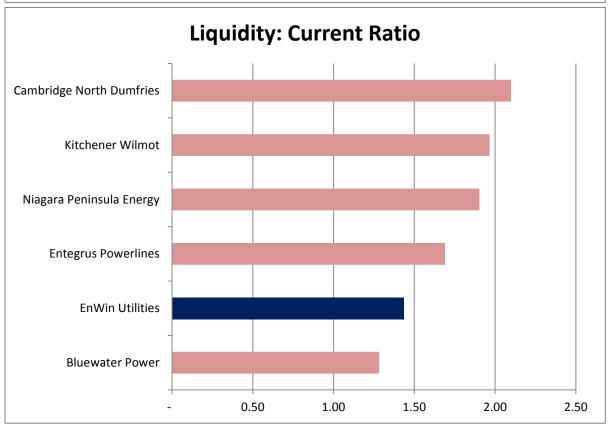






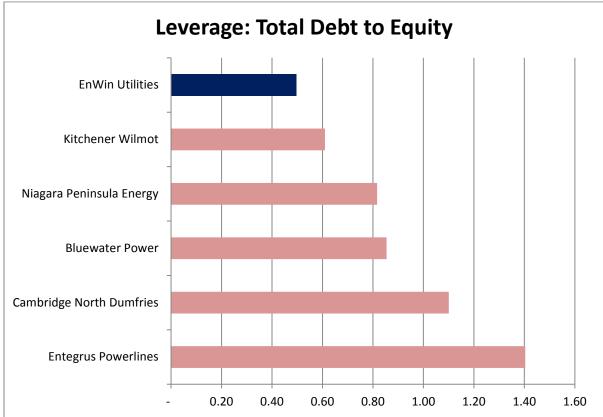


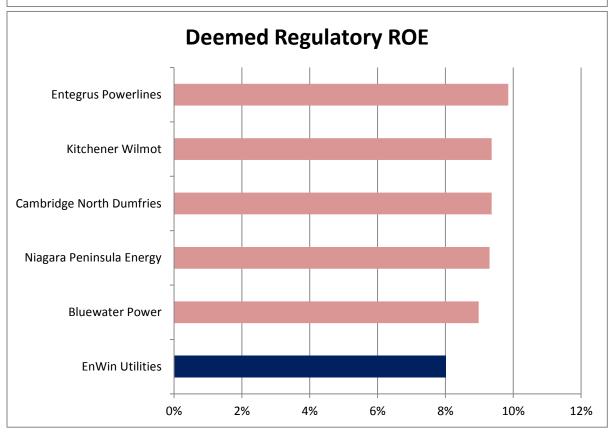






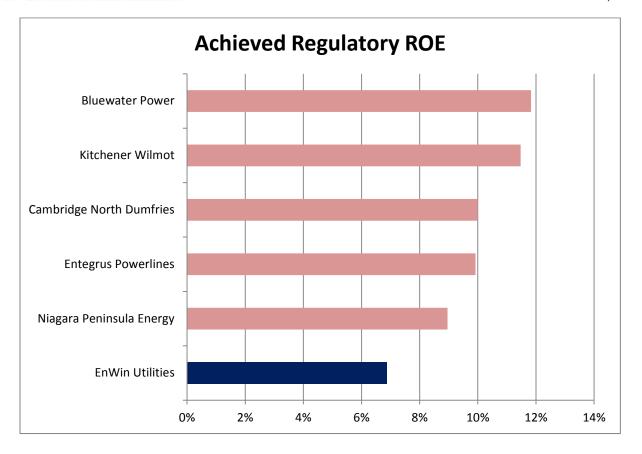




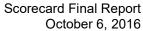


Responses to Interrogatories from SEC - 34 - 1 - SEC - 2 - Attachment 4 Scorecard Final Report 36 of 47





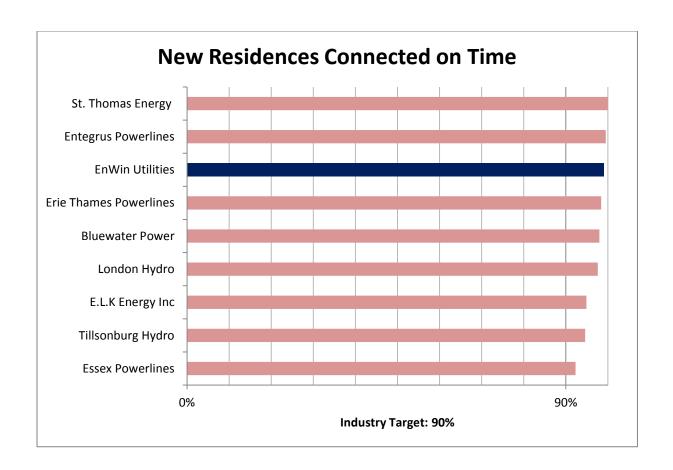






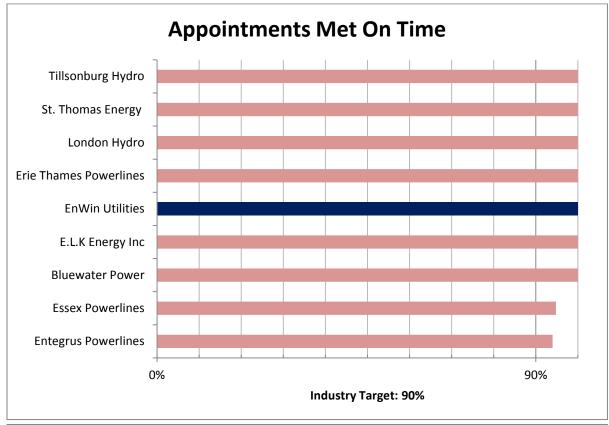
## 4 TABLES COMPARING LDCs From The Same Geographic **AREA**

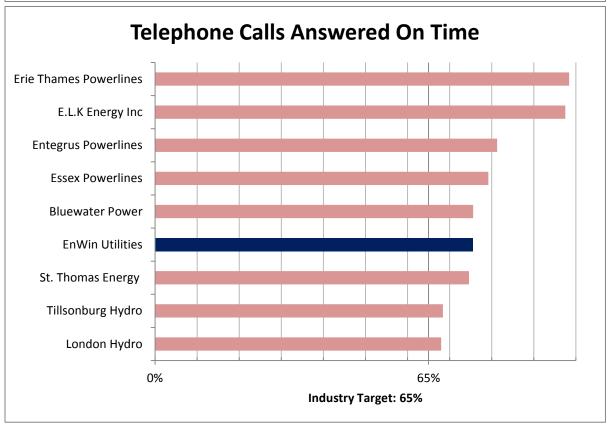
EnWin Utilities was compared to the following LDCs which are within the same region based on Electricity Distributors Association (EDA) districts: Bluewater Power, E.L.K Energy, Entegrus Powerlines, Erie Thames Powerlines, Essex Powerlines, London Hydro, St. Thomas Energy, and Tillsonburg Hydro.



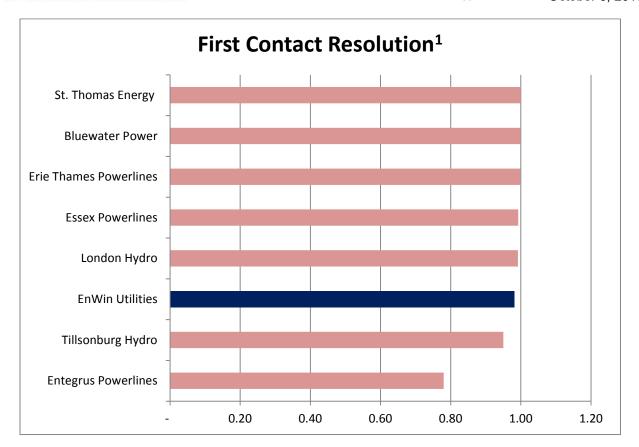






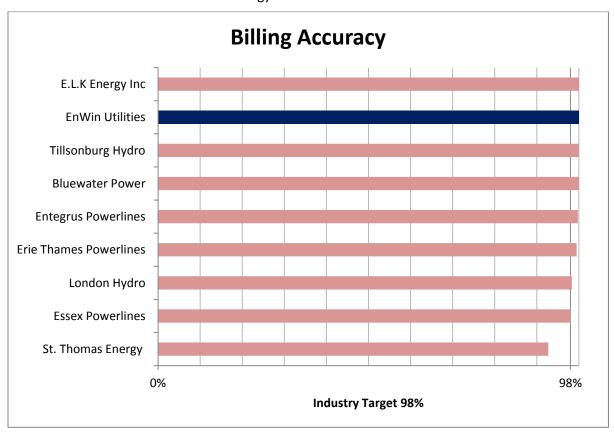


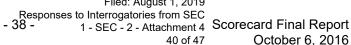




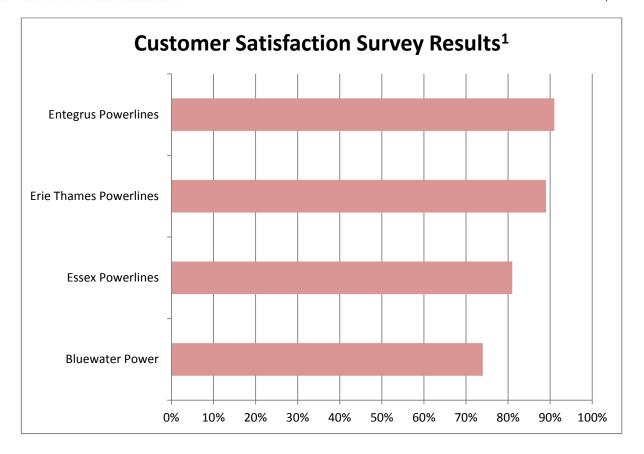
#### Note:

1. First Contact Resolution for E.L.K Energy is "Excellent".





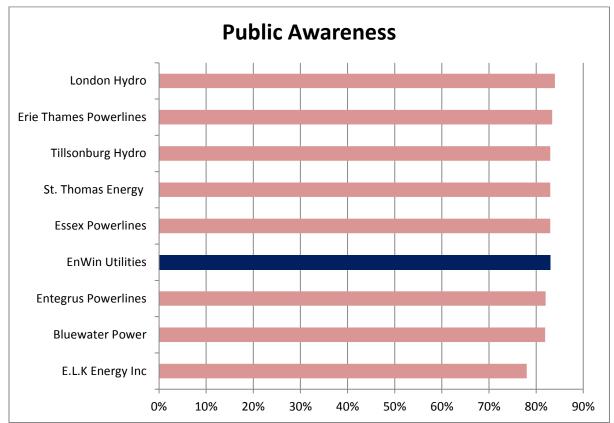


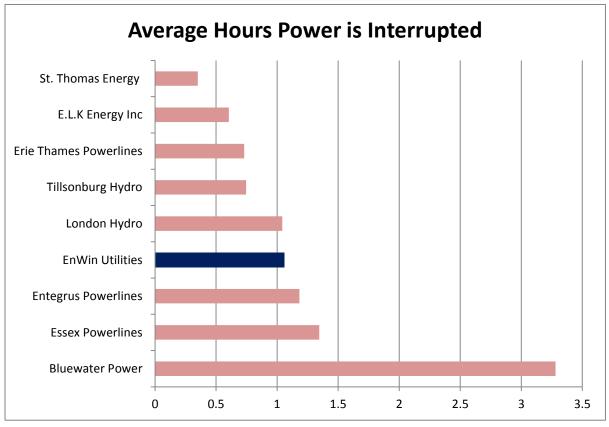


#### Note:

1. Customer Satisfaction Survey Results for E.L.K Energy is "Excellent", EnWin Utilities is "Good", London Hydro is "A", St.Thomas Energy is "B+AA", Tillsonburg Hydro is "Satisfied".



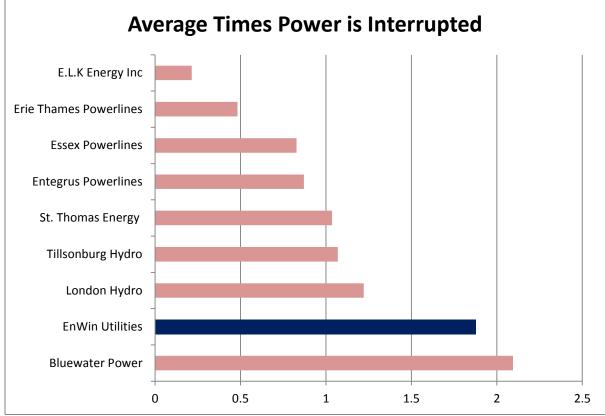


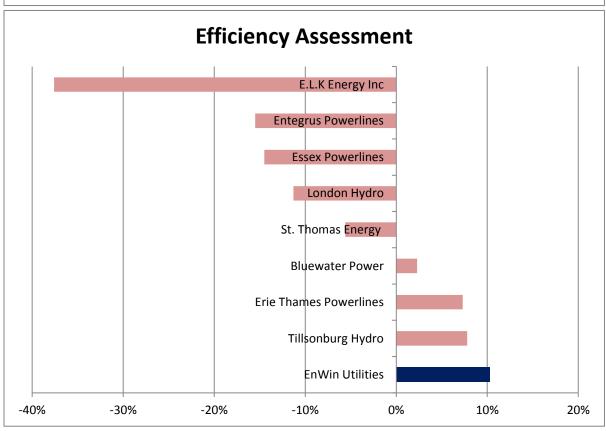


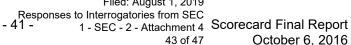


1 - SEC - 2 - Attachment 4 Scorecard Final Report October 6, 2016

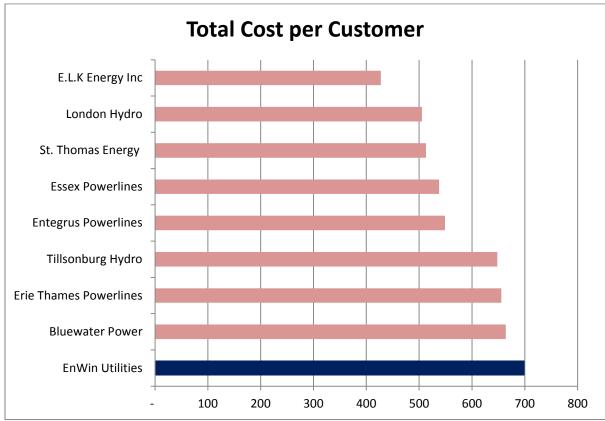


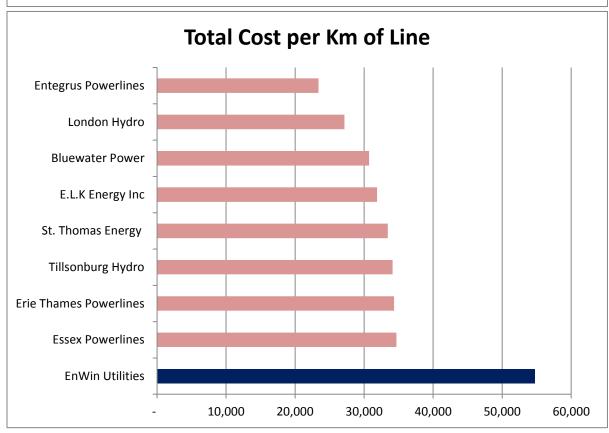




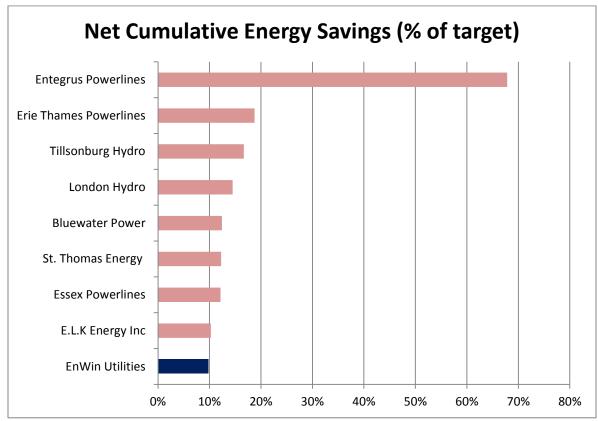


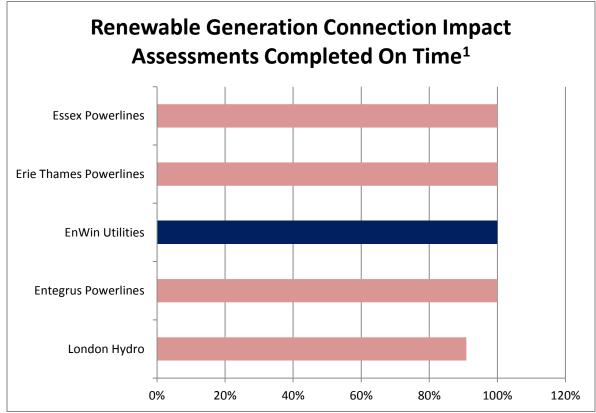






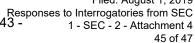




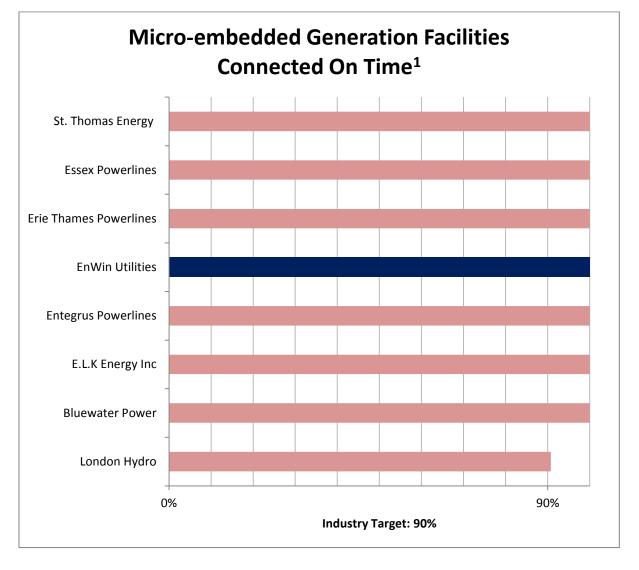


#### Note:

Information for Bluewater Power, E.L.K Energy, St.Thomas Energy and Tillsonburg Hydro is not available.

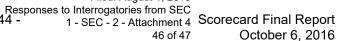




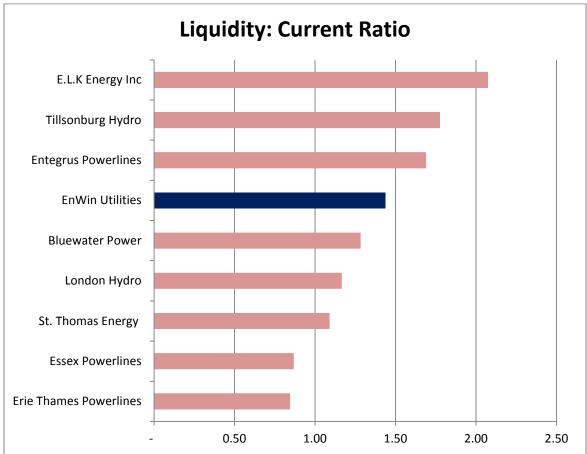


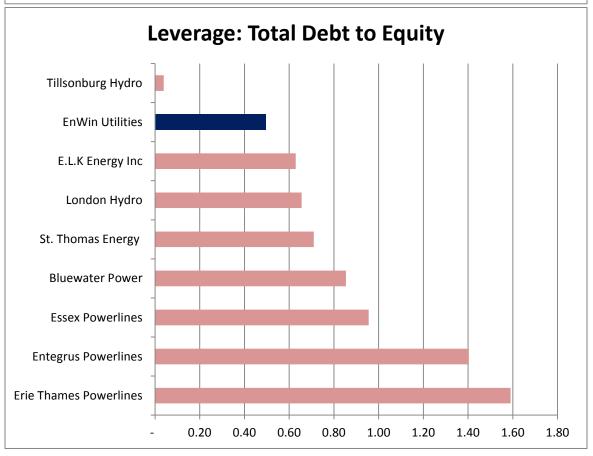
#### Note:

1. Information for Tillsonburg Hydro was not available.



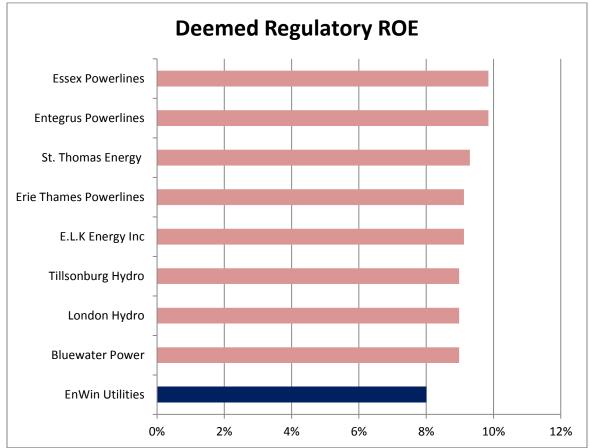


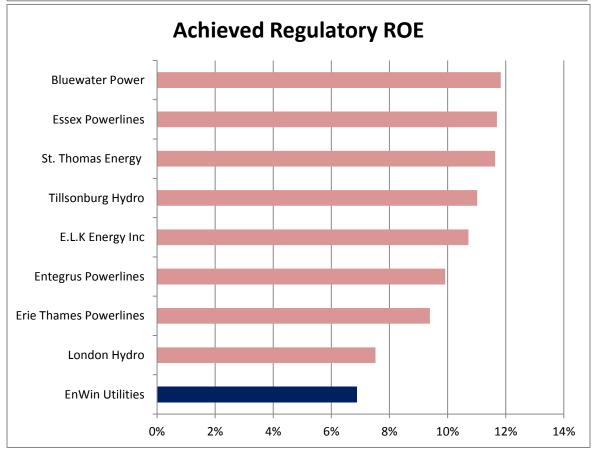




47 of 47







EB-2019-003 Filed: August 1, 201

esponses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 1 of 71



The MEARIE Group - 3700 Steeles Ave West, Suite 1100, Vaughan, Ontario, L4L 8K8

2011/2012 Management Salary Survey

Survey of Ontario's Local Distribution Companies

EB-2019-0032 Filed: August 1, 2019

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

## **Survey Overview**

We are pleased to provide you with a copy of The MEARIE Group's 2011/2012 **Management Salary Survey** of **Ontario's Local Distribution Companies**. We had the best participation in the last decade this year, with a total of 47 utilities participating in the survey. This helps to make the data more robust for all users.

We provided the survey in a web-based format which was available to all LDCs. This is also the second time we have offered the Board of Directors Compensation Survey as an adjunct to the main survey. The surveys are compiled by a third party provider, Cyr & Associates Inc., to ensure confidentiality and consistency of the information. The consolidated results are compiled and provided to The MEARIE Group for distribution and printing.

We added two new positions this year, based on feedback from participants. The new positions are: Billing Supervisor and Conservation and Demand Management Officer. We have also made some minor changes to the groupings of utilities in sections of Employee Size and Customer Size, to better reflect changes and growth within some of the utilities.

Portions of the data have been marked with an asterisk\* where responses were insufficient to report. Not every utility provides complete data for all positions. In some cases, the data isn't available or it is not applicable at that utility. In these cases, the data is marked with an asterisk.

The report has been divided into the following sections:

- All LDCs consolidated
- By Customer Size (electrical metered customers only)
- Revenue Grouping all gross revenues including the cost of power
- By District
- By Employee Size

Reporting in this manner allows a complete representation of data to better assist you with your compensation and organisational planning. In the interests of continually striving to serve you better, please forward any suggestions or comments on this survey to - Connie McLaren, Sales and Marketing Manager, H.R. and Business Services at <a href="mailto:cmclaren@mearie.ca">cmclaren@mearie.ca</a> or by contacting her directly at The MEARIE Group's offices (905) 265-5327.

We are always looking for your suggestions on any positions or changes that you feel should be included in the survey to better serve you. Remember, positions have to be commonly represented across the utilities to be included in the survey.

# Filed: August 1, 2019 Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

#### 3 of 71

### **Table of Contents:**

Survey Overview	
Using the Survey Results	
Survey Definitions	
Compensation Analysis: By Customer Size	
Table 2: Customer Size – LDCs (1 to 10,000 Customers)	
Table 3: Customer Size – LDCs (10,001 to 20,000 Customers)	
Table 4: Customer Size – LDCs (20,001 to 30,000 Customers)	
Table 5: Customer Size – LDCs (30,001 to 40,000 Customers)	
Table 6: Customer Size – LDCs (40,001-80,000 Customers)	
Table 7: Customer Size – LDCs (80,001 to 120,000 Customers)	20
Table 8: Customer Size – LDCs (120,001+ Customers)	22
Compensation Analysis: By Gross Revenue Grouping	
Table 9: LDCs Gross Revenue Under \$20 Million	
Table 10: LDCs Gross Revenue \$20,000,001 to \$50,000,000 Million	26
Table 11: LDCs Gross Revenue \$50,000,001 to \$100,000,000 Million	28
Table 12: LDCs Gross Revenue \$100,000,001 to \$200,000,000 Million	30
Table 13: LDCs Gross Revenue Over \$200,000,001 Million	32
Compensation Analysis: By District	34
Table 14: LDCs in District 'Georgian Bay'	34
Table 15: LDCs in District 'Northeastern'	36
Table 16: LDCs in District 'Niagara Grand'	38
Table 17: LDCs in District 'North Western'	40
Table 18: LDCs in District 'Upper Canada'	
Table 19: LDCs in District 'Western'	
Compensation Analysis: By Employee Size	
Table 20: LDCs 1 to 20 Employees	
Table 21: LDCs 21 to 40 Employees	
Table 22: LDCs 41 to 70 Employees	
Table 23: LDCs 71 to 100 Employees	
Table 24: LDCs 101 to 150 Employees	
Table 25: LDCs 151 to 300 Employees	
Table 26: LDCs 301+ Employees	
Perquisites – All LDCs	
Table 27: Perquisites by Position Level	60
Table 28: Other Perquisites Noted	
Table 29: Mileage & Auto	
Table 30: Service Periods for Vacation Entitlement	
Base Compensation Planning	
Top HR Priorities – 2012	
Appendix:	

# EB-2019-0032 Filed: August 1, 2019 Responses to interrogatories from SEC

### Particip

ipant List (Alphabetical Order)	1 - SEC - 2 - Attachment 5 4 of 71

Local Distribution Company	District	Customer Size	Employee Base
Bluewater Power Distribution	WE - Western	35,704	118
Brant County Power Inc.	NG - Niagara Grand	9,645	29
Burlington Hydro Inc.	UC - Upper Canada	65,000	94
Chatham-Kent Energy	WE - Western	32,645	81
City of Brantford (Brantford Power)	NG - Niagara Grand	38,159	84
Collingwood Utility Services	GB - Georgian Bay	15,430	46
Enwin Utilities Ltd.	WE - Western	86,428	192
Erie Thames Powerlines	NE - Northeastern	14,376	37
Essex Power Corporation	WE - Western	28,270	57
Festival Hydro Inc	NG - Niagara Grand	19,750	45
Fort Frances Power Corporation	NW - Northwestern	3,770	9
Greater Sudbury Utilities	NE - Northeastern	47,500	112
Grimsby Power Incorporated	NG - Niagara Grand	10,231	17
Guelph Hydro Electric Systems Inc.	NG - Niagara Grand	50,250	99
Haldimand County Hydro Inc.	NG - Niagara Grand	20,972	48
Hydro Ottawa Group of Companies	NE - Northeastern	302,306	550
Innisfil Hydro Distribution Systems Ltd	GB - Georgian Bay	14,797	32
Kenora Hydro Electric Corporation Ltd	NW - Northwestern	5,600	16
Kitchener-Wilmot Hydro Inc.	NG - Niagara Grand	86,939	172
Lakeland Holding Ltd	GB - Georgian Bay	9,532	35
London Hydro Inc.	WE - Western	149,200	307
Midland Power Utility Corporation	GB - Georgian Bay	6,900	15
Milton Hydro Distribution Inc	UC - Upper Canada	29,789	45
Newmarket-Tay Power Distribution Ltd.	NE - Northeastern	31,000	52
Niagara Peninsula Energy	NG - Niagara Grand	51,048	113
Niagara-on-the-Lake Hydro Inc.	NG - Niagara Grand	7,882	18
Norfolk Power Distribution Inc.	NG - Niagara Grand	19,058	47
North Bay Hydro	NE - Northeastern	23,000	46
Northern Ontario Wires Inc.	NE - Northeastern	6,100	14
Orangeville Hydro	GB - Georgian Bay	11,347	20
Orillia Power Corporation	GB - Georgian Bay	12,900	46
Oshawa PUC Networks, Inc.	UC - Upper Canada	55,000	64
Ottawa River Power Corporation	UC - Upper Canada	10,518	28
Peterborough Utilities	NE - Northeastern	35,000	158
PowerStream	UC - Upper Canada	330,000	450
PUC Services Inc.	NE - Northeastern	33,000	180
Sioux Lookout Hydro Inc.	NW - Northwestern	2,750	8
St. Thomas Energy Services Inc.	WE - Western	16,420	35
Thunder Bay Hydro	NW - Northwestern	49,587	123
Utilities Kingston	UC - Upper Canada	26,940	378

EB-2019-0032

Participant List (Alphabetical Order)

Filed: August 1, 2019
Responses to interrogatories from SEC
1 - SEC - 2 - Attachment 5

5 of 71

Local Distribution Company	District	Customer Size	Employee Base
Veridian	NE - Northeastern	112,915	217
Wasaga Distribution Inc.	GB - Georgian Bay	12,095	19
Waterloo North Hydro Inc.	NG - Niagara Grand	51,934	116
Welland Hydro-Electric System Corp.	NG - Niagara Grand	22,000	39
Westario Power Inc.	GB - Georgian Bay	22,007	35
Whitby Hydro	UC - Upper Canada	40,000	66
Woodstock Hydro Services Inc.	WE - Western	15,000	37

EB-2019-0032 Filed: August 1, 2019

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

### **Using the Survey Results**

The 2011/2012 Management Salary Survey for Ontario LDCs represents data submitted by 47 organizations covering approximately 4549 incumbents in 37 different executive, managerial, professional and administrative positions. All salary data is based on rates effective June 1<sup>st</sup>, 2011. We reserve the right to exclude data which is considered statistically invalid or incorrect and have contacted individual participants for clarification in some instances. Where job matches were clearly incorrect or single incumbent jobs were reported in several positions, data may have been modified to correct the entry.

Salary surveys can be a tremendously valuable tool to assist you in your workforce planning, salary administration and budgeting. However, <u>results can vary from year to year depending upon the number of participants in the survey and the data provided.</u>

Keep in mind that compensation surveys can only reflect 'benchmark' positions. **Benchmark** positions are those jobs that are commonly found across the industry, where primary responsibilities and incumbent requirements are consistent for approximately 80% of the primary responsibilities. You should also be sensitive to variables in jobs that are affected by the scope of the role, location or size of organization.

Generally, if you can match 40% to 50% of your key jobs to external data – such as this report, you will have a strong basis on which to plan your compensation program. When using the data, match your jobs to the survey based on job content and <u>not the job title</u>. Other unique positions do not have significant enough representation to provide accurate compensation data. Please note the following:

To preserve the confidentiality of data supplied by participating organizations, compensation data is reported only where a minimum of three organizations and three incumbents are included in the sample. Compensation medians, P25 and P75 for actual salaries are reported only where there is a minimum of four organizations and four incumbents included in the data. Where there was insufficient data, information was not reported.

EB-2019-0032 Filed: August 1, 2019 to Interrogatories from SEC 1 - SEC - 2 - Attachment 5 7 of 71

# **Survey Definitions**

	Carry Bonnaions
# of Companies	The actual number of companies reporting information for the position.
# of Incumbents	The actual number of incumbents in the role.
Average Range Maximum	The average maximum rate of the <u>salary ranges</u> for all respondents.
Average Range Minimum	The average minimum rate of the salary ranges for all respondents.
Bonus	An after-the-fact reward or payment based on the performance of an individual, a group of workers operating as a unit, a division or an entire work force.
Executive	The group of individuals who head major operating functions of the organization and typically report to the President/CEO.
Gainsharing	A bonus plan aimed at improving productivity or costs through improved work methods.
Gross Revenues	Total revenues from inflow of assets, including revenues from sales of products or services.
Average Incentive Maximum%	The maximum annual cash incentive for the job as a percentage of base salary.
Average Incentive Target %	The target annual cash incentive for the job as a percentage of base salary.
Individual Incentive	Any form of variable payment tied to performance. The payment is a monetary award. Incentives are contrasted with bonuses in that performance goals for incentives are predetermined.
Mean (Average Actual)	The sum of the <u>actual average salary</u> reported divided by the number of respondents.
Median (Median of the actual salaries reported).	Median is the middle rate when data are arranged in order and there is an odd number of observations (i.e. 3, 5, 7 etc.). It is the mean of the two middle observations when the data is arranged in order for even number observations (2, 10 etc.); most compensation professionals prefer to make comparisons on this basis since it is less easily influenced by extreme values.
Middle Management	The group of managers and/or professionals directly reporting to the Executive.
P25 (25 <sup>th</sup> percentile of actual salaries reported)	25 <sup>th</sup> Percentile (1 <sup>st</sup> Quartile) – The rate within the sample of <u>actual reported base</u> <u>salaries</u> which is higher than 25% of all rates reported.
P75 (75 <sup>th</sup> percentile of actual salaries reported)	75 <sup>th</sup> Percentile (3 <sup>rd</sup> Quartile) – The rate within the sample of <u>actual reported base</u> <u>salaries</u> which is higher than 75% of all rates reported.
Profit Sharing	An automatic fixed percentage of total profits or of profits above a certain threshold awarded to employees strictly on the performance of the entire organization.
Team Based Incentive	A specified project or operational team may receive an incentive based upon results, deliverables or an increase in productivity.
Variable Pay	Compensation that is contingent on discretion, performance or results achieved. It may be referred to as pay at risk.

Filed: August 1, 2019

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

8 of 71

## Compensation Analysis: All Local Distribution Companies

Table 1: Annual Salaries - All LDCs

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	47	40	\$130,701	\$171,856	\$160,573	\$138,000	\$181,200	\$155,197	19	25
V.P. Operations & Engineering/COO	47	23	\$115,365	\$148,286	\$140,616	\$121,161	\$149,959	\$135,000	16	21
Director/V.P. Operations	47	16	\$108,531	\$134,429	\$127,074	\$112,770	\$134,213	\$128,454	12	15
Director/V.P. Engineering	47	13	\$110,286	\$134,240	\$124,370	\$113,547	\$132,120	\$124,110	12	18
Engineering Manager	47	26	\$86,496	\$109,348	\$102,631	\$95,431	\$109,361	\$104,428	7	10
Distribution Engineer	47	19	\$77,265	\$103,602	\$92,923	\$86,896	\$100,271	\$91,305	5	8
Engineering Supervisor	47	25	\$72,961	\$95,523	\$88,870	\$83,371	\$93,832	\$87,568	5	9
Operations Manager or Superintendent	47	43	\$83,198	\$105,865	\$98,123	\$92,739	\$101,299	\$97,900	5	10
Control Centre Supervisor	47	17	\$79,603	\$99,408	\$94,580	\$89,777	\$100,555	\$92,438	6	10
Meter Shop Supervisor	47	23	\$76,032	\$94,715	\$90,252	\$85,425	\$95,878	\$90,230	6	8
Line Supervisor	47	91	\$74,896	\$94,642	\$88,657	\$84,838	\$90,721	\$88,169	6	10
Purchasing/Procurement Manager	47	19	\$74,468	\$95,035	\$87,182	\$78,649	\$96,423	\$85,051	7	11
Stores/Inventory Control Supervisor	47	10	\$65,482	\$82,358	\$81,849	\$78,998	\$91,021	\$79,552	8	8
Executive Assistant (to President)	47	33	\$56,830	\$71,145	\$67,550	\$63,168	\$72,629	\$66,631	5	8
Administrative Assistant	47	40	\$49,603	\$61,385	\$58,353	\$54,166	\$63,150	\$59,535	6	7
Director/VP Finance/CFO	47	37	\$109,196	\$141,457	\$131,626	\$109,273	\$141,370	\$130,816	14	22
Controller/Manager Finance	47	25	\$86,535	\$110,417	\$100,353	\$91,519	\$106,161	\$97,448	8	12
General Accounting Manager	47	14	\$78,565	\$100,891	\$92,399	\$83,563	\$97,516	\$91,783	7	12
Accounting Supervisor	47	21	\$66,912	\$85,518	\$79,820	\$72,990	\$84,686	\$80,470	8	9
Billing Supervisor	47	18	\$67,697	\$85,036	\$79,553	\$75,168	\$82,937	\$79,552	7	10
Director or VP, Customer Service	47	16	\$96,884	\$126,227	\$119,488	\$106,534	\$128,091	\$113,050	11	15
Manager, Customer Service	47	20	\$78,924	\$103,224	\$93,455	\$87,467	\$102,964	\$91,416	7	11
Customer Service Supervisor	47	30	\$63,778	\$81,661	\$74,532	\$69,137	\$81,454	\$75,611	6	8
Financial/Business Analyst	47	35	\$63,778	\$81,661	\$75,777	\$70,703	\$82,090	\$76,491	6	9
Director or VP, Regulatory Affairs	47	10	\$107,397	\$143,828	\$131,861	\$122,981	\$135,325	\$129,246	14	20
Manager, Regulatory Affairs	47	19	\$71,257	\$94,672	\$86,207	\$76,608	\$91,748	\$82,775	5	9

										EB-2019 Filed: August 1
										Interrogatories from - SEC - 2 - Attach
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	47	18	\$66,859	\$81,102	\$77,269	\$69,617	\$82,371	\$72,916	6	7
Conservation & DM Officer	47	21	\$69,106	\$85,437	\$77,501	\$68,959	\$86,236	\$79,854	7	9
I.S. Director/VP	47	11	\$105,297	\$135,502	\$129,327	\$118,512	\$133,258	\$121,055	13	19
I.S. Manager	47	18	\$76,923	\$100,343	\$92,605	\$83,165	\$102,402	\$89,150	9	13
I.S. Supervisor/Computer Operations	47	9	\$74,688	\$98,776	\$87,926	\$81,167	\$95,159	\$89,337	5	8
Systems Administrator/Apps Support	47	33	\$62,730	\$80,590	\$76,554	\$70,562	\$82,306	\$79,166	5	8
Human Resources Director/VP	47	11	\$106,192	\$125,031	\$126,208	\$107,487	\$136,732	\$127,182	15	19
Human Resources Manager	47	14	\$80,533	\$105,896	\$94,879	\$84,348	\$103,509	\$91,332	8	14
Human Resources Generalist/Officer	47	18	\$62,052	\$81,596	\$74,453	\$66,731	\$78,442	\$73,930	8	8
Human Resources Assistant/Coord.	47	16	\$51,512	\$65,185	\$59,684	\$58,512	\$64,168	\$61,402	6	7
Manager Health & Safety/Loss Control	47	20	\$76,775	\$96,828	\$91,370	\$85,981	\$97,041	\$90,667	8	12

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

10 of 71

## Compensation Analysis: By Customer Size

Table 2: Customer Size – LDCs (1 to 10,000 Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	8	8	98,496	122,100	115,292	106,540	118,436	114,202	*	*
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	*	*	*	*	*	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	8	6	*	*	90,948	88,523	96,574	91,273	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	8	3	*	*	84,677	*	*	*	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	*	*	*	*	*	*	*	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	8	5	*	*	95,653	86,990	98,318	89,105	*	*
Controller/Manager Finance	8	3	*	*	78,608	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	*	*	*	*	*	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

EB-2019-0032 Filed: August 1, 2019

	Responses to interrogatorie 1 - SEC - 2 - A											
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%		
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*		
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*		
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*		
I.S. Manager	*	*	*	*	*	*	*	*	*	*		
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*		
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*		
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*		
Human Resources Manager	*	*	*	*	*	*	*	*	*	*		
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*		
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*		
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*		

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

12 of 71

# Compensation Analysis: By Customer Size Table 3: Customer Size – LDCs (10,001 to 20,000 Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	12	11	126,557	160,653	147,731	134,664	151,450	139,435	*	*
V.P. Operations & Engineering/COO	12	4	106,303	128,161	120,620	110,012	128,573	117,965	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	12	6	79,904	99,977	92,792	89,146	99,152	90,500	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	12	7	81,606	105,111	97,664	96,036	99,878	98,340	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	12	3	74,929	92,476	89,007	*	*	*	*	*
Line Supervisor	12	8	74,301	95,186	86,178	84,524	87,720	86,623	*	*
Purchasing/Procurement Manager	12	3	63,020	83,399	76,676	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	12	5	*	*	61,362	57,350	64,900	63,220	*	*
Administrative Assistant	12	3	47,339	56,755	54,040	*	*	*	*	*
Director/VP Finance/CFO	12	8	98,197	126,169	114,797	105,137	130,740	109,697	*	*
Controller/Manager Finance	12	5	85,896	102,358	95,317	94,370	99,152	98,492	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	12	3	62,162	87,952	76,309	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	12	3	*	*	91,322	*	*	*	*	*
Customer Service Supervisor	12	3	*	*	67,841	*	*	*	*	*
Financial/Business Analyst	12	5	61,419	80,938	75,020	68,581	79,310	72,870	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

EB-2019-0032 Filed: August 1, 2019

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	12	3	69,224	91,274	82,484	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	12	3	52,264	78,325	60,740	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	12	3	*	*	84,360	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

14 of 71

# Compensation Analysis: By Customer Size Table 4: Customer Size – LDCs (20,001 to 30,000 Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	7	6	123,803	158,893	155,345	150,931	156,764	155,598	13	20
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	*	4	87,098	112,665	102,421	95,431	104,140	97,149	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	3	70,018	88,561	*	*	*	*	*	*
Operations Manager or Superintendent	*	5	81,906	105,682	95,950	87,006	94,870	90,359	6	7
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	3	75,369	93,664	89,269	*	*	*	*	*
Line Supervisor	*	11	74,630	95,553	89,023	84,517	92,644	84,838	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	6	55,908	69,614	69,872	67,906	72,788	71,775	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	*	6	100,112	124,715	120,113	108,654	114,777	112,429	7	10
Controller/Manager Finance	*	*	*	*	*	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	3	*	*	76,919	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	*	4	60,673	74,550	69,670	61,577	76,579	68,486	*	*
Financial/Business Analyst	*	8	61,640	78,586	71,148	62,505	78,550	68,297	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	3	64,664	79,833	73,740	*	*	*	*	*

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	3	67,114	84,432	75,831	*	*	*	*	*
Conservation & DM Officer	*	3	*	*	64,565	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	3	67,482	88,958	74,831	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	10	60,052	74,943	68,026	62,557	73,093	72,831	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

Filed: August 1, 2019

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

16 of 71

# Compensation Analysis: By Customer Size Table 5: Customer Size – LDCs (30,001 to 40,000 Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	7	6	144,263	185,639	181,462	163,145	194,206	181,200	19	19
V.P. Operations & Engineering/COO	*	5	109,250	136,875	132,485	128,041	133,397	131,943	*	*
Director/V.P. Operations	*	5	96,276	115,154	113,565	106,200	115,465	107,212	*	*
Director/V.P. Engineering	*	3	*	116,852	116,852	*	*	*	*	*
Engineering Manager	*	3	88,160	111,423	109,329	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	4	80,099	100,437	95,266	87,629	95,597	87,959	*	*
Operations Manager or Superintendent	*	6	82,025	100,719	99,559	93,433	101,661	96,635	4	4
Control Centre Supervisor	*	3	*	99,932	99,932	*	*	*	*	*
Meter Shop Supervisor	*	4	73,925	93,593	92,535	89,541	95,227	92,232	*	*
Line Supervisor	*	11	71,872	88,703	86,961	84,628	89,683	86,285	4	4
Purchasing/Procurement Manager	*	3	71,525	88,641	86,262	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	7	54,338	66,699	65,840	63,231	68,173	64,963	4	4
Administrative Assistant	*	7	45,874	54,898	54,403	56,180	59,096	56,303	*	*
Director/VP Finance/CFO	*	7	285,632	136,446	136,669	131,380	141,051	133,397	10	10
Controller/Manager Finance	*	5	70,705	95,295	93,060	89,747	98,687	95,374	4	4
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	4	92,278	117,416	113,096	105,673	117,679	110,256	*	*
Manager, Customer Service	*	5	75,040	98,245	97,186	89,150	102,402	99,346	4	4
Customer Service Supervisor	*	5	58,420	79,555	80,147	78,300	82,078	80,231	4	4
Financial/Business Analyst	*	6	61,837	77,144	74,807	72,467	81,772	76,491	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	6	68,779	90,390	87,099	81,053	90,854	88,530	4	4

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%				
Settlement/Rate Analyst	*	5	70,298	88,433	86,362	*	*	*	*	*				
Conservation & DM Officer	*	5	58,206	64,669	67,706	60,000	79,854	68,959	*	*				
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*				
I.S. Manager	*	5	71,225	94,865	91,466	83,165	102,402	89,150	*	*				
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*				
Systems Administrator/Apps Support	*	7	58,360	75,655	80,673	76,983	83,508	79,818	*	*				
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*				
Human Resources Manager	*	*	*	*	*	*	*	*	*	*				
Human Resources Generalist/Officer	*	4	59,869	74,754	73,063	*	*	*	*	*				
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*				
Manager Health & Safety/Loss Control	*	4	71,753	88,257	85,555	80,084	88,811	83,340	*	*				

Filed: August 1, 2019

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 18 of 71

# Compensation Analysis: By Customer Size Table 6: Customer Size – LDCs (40,001-80,000 Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	7	5	144,579	186,186	175,539	161,790	179,495	174,900	*	*
V.P. Operations & Engineering/COO	*	5	128,949	158,910	143,035	139,564	146,914	140,692	12	16
Director/V.P. Operations	*	3	111,126	125,191	125,192	*	*	*	*	*
Director/V.P. Engineering	*	3	115,460	129,525	128,071	*	*	*	*	*
Engineering Manager	*	5	87,444	111,748	105,975	103,070	109,089	107,627	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	7	69,790	100,013	89,777	86,272	94,035	90,529	*	*
Operations Manager or Superintendent	*	8	86,727	110,008	101,762	98,239	106,123	100,531	5	7
Control Centre Supervisor	*	5	76,519	99,614	92,799	90,002	97,365	91,360	*	*
Meter Shop Supervisor	*	5	76,350	97,266	88,483	86,398	90,230	90,002	*	*
Line Supervisor	*	21	74,993	96,254	90,260	89,125	90,222	89,460	5	7
Purchasing/Procurement Manager	*	5	72,921	92,624	85,059	81,439	86,113	84,348	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	8	56,003	68,949	69,526	65,212	72,629	68,500	4	5
Administrative Assistant	*	7	47,095	60,940	58,616	*	*	*	*	*
Director/VP Finance/CFO	*	5	116,901	151,377	145,080	133,935	141,370	139,254	*	*
Controller/Manager Finance	*	5	83,930	104,376	100,410	95,244	105,096	99,930	*	*
General Accounting Manager	*	3	83,045	112,008	101,432	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	6	67,842	85,768	77,753	73,930	81,496	74,911	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	4	79,336	106,205	94,198	89,598	99,190	94,591	5	8
Customer Service Supervisor	*	6	67,000	82,218	74,678	70,712	81,930	71,989	*	*
Financial/Business Analyst	*	4	67,970	86,783	77,112	75,433	79,605	77,926	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	3	76,437	104,403	94,765	*	*	*	*	*

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

-	9	of	71	

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	3	63,967	*	73,835	*	*	*	*	*
Conservation & DM Officer	*	4	71,149	85,522	85,522	81,744	89,173	85,394	*	*
I.S. Director/VP	*	3	100,922	124,316	117,342	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	3	77,073	*	92,015	*	*	*	*	*
Systems Administrator/Apps Support	*	5	68,284	84,037	83,747	79,561	85,879	81,693	*	*
Human Resources Director/VP	*	3	*	*	130,645	*	*	*	*	*
Human Resources Manager	*	4	81,803	105,518	94,995	88,587	101,880	95,472	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	6	74,754	90,150	88,454	88,067	95,412	91,746	*	*

20 of 71

# Compensation Analysis: By Customer Size Table 7: Customer Size – LDCs (80,001 to 120,000 Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	*	*	*	*	*	*	*	*	*	*
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	3	4	95,054	114,097	105,688	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	*	*	*	*	*	*	*	*	*	*
Control Centre Supervisor	3	3	81,250	92,762	86,837	*	*	*	*	*
Meter Shop Supervisor	3	3	80,198	88,771	88,772	*	*	*	*	*
Line Supervisor	3	15	80,198	91,470	88,814	*	*	*	*	*
Purchasing/Procurement Manager	3	3	86,162	104,459	100,103	*	*	*	*	*
Stores/Inventory Control Supervisor	3	3	69,034	81,188	81,188	*	*	*	*	*
Executive Assistant (to President)	3	3	67,722	78,534	78,548	*	*	*	*	*
Administrative Assistant	3	6	60,224	69,729	65,305	*	*	*	*	*
Director/VP Finance/CFO	3	3	128,114	164,681	156,153	*	*	*	*	*
Controller/Manager Finance	*	*	*	*	*	*	*	*	*	*
General Accounting Manager	3	3	83,705	101,583	91,126	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	3	3	*	135,188	130,165	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	3	4	70,275	81,654	80,709	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

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	21 of 71
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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	3	4	65,162	75,904	74,489	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	3	3	101,989	123,942	119,519	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	3	3	82,227	95,579	95,579	*	*	*	*	*

22 of 71

# Compensation Analysis: By Customer Size Table 8: Customer Size – LDCs (120,001+ Customers)

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	3	*	*	*	*	*	*	*	*	*
V.P. Operations & Engineering/COO	3	3	135,243	196,860	192,733	*	*	*	25	33
Director/V.P. Operations	3	3	114,704	157,959	149,273	*	*	*	*	*
Director/V.P. Engineering	3	3	112,266	152,139	141,461	*	*	*	*	*
Engineering Manager	3	4	88,741	118,503	110,396	*	*	*	*	*
Distribution Engineer	3	10	82,224	109,085	102,706	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	3	8	85,885	114,940	105,558	*	*	*	*	*
Control Centre Supervisor	3	4	76,882	102,401	99,095	*	*	*	*	*
Meter Shop Supervisor	3	5	75,912	101,195	93,863	*	*	*	*	*
Line Supervisor	3	22	77,839	103,608	97,894	*	*	*	*	*
Purchasing/Procurement Manager	3	3	81,045	108,894	101,327	*	*	*	*	*
Stores/Inventory Control Supervisor	3	4	66,598	88,509	87,707	*	*	*	*	*
Executive Assistant (to President)	3	3	54,845	72,952	66,434	*	*	*	*	*
Administrative Assistant	3	15	52,508	70,030	63,653	*	*	*	*	*
Director/VP Finance/CFO	3	3	*	*	200,769	*	*	*	27	36
Controller/Manager Finance	3	3	98,705	136,396	126,267	*	*	*	*	*
General Accounting Manager	3	3	78,589	106,504	98,759	*	*	*	*	*
Accounting Supervisor	3	8	66,865	88,835	84,848	*	*	*	*	*
Billing Supervisor	3	5	67,561	89,709	84,459	*	*	*	*	*
Director or VP, Customer Service	3	3	103,793	143,644	134,577	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	3	6	66,598	88,509	82,325	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	3	3	108,585	150,233	138,604	*	*	*	*	*
Manager, Regulatory Affairs	3	3	82,873	111,174	*	*	*	*	*	*

1 - SEC - 2 - Attachment 5 23 of 71

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%	
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*	
Conservation & DM Officer	3	3	79,974	107,541	99,974	*	*	*	*	*	
I.S. Director/VP	3	3	113,633	163,014	153,461	*	*	*	*	*	
I.S. Manager	3	3	96,340	129,477	119,265	*	*	*	*	*	
I.S. Supervisor/Computer Operations	3	4	75,637	100,855	89,954	*	*	*	*	*	
Systems Administrator/Apps Support	3	6	69,510	92,142	89,341	*	*	*	*	*	
Human Resources Director/VP	3	3	105,160	151,821	141,996	*	*	*	*	*	
Human Resources Manager	*	*	*	*	*	*	*	*	*	*	
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*	
Human Resources Assistant/Coord.	3	7	54,366	72,353	66,553	*	*	*	*	*	
Manager Health & Safety/Loss Control	3	5	87,012	117,828	102,718	*	*	*	*	*	

24 of 71

#### Compensation Analysis: By Gross Revenue Grouping

Table 9: LDCs Gross Revenue Under \$20 Million

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	11	10	105,166	147,928	122,608	113,161	122,720	116,163	*	*
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	11	3	85,921	106,353	*	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	11	7	80,433	107,265	94,002	91,273	99,476	95,000	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	11	6	68,263	96,179	84,995	82,671	86,506	85,688	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	11	5*	*	*	59,329	53,055	64,900	57,350	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	11	6	90,261	126,475	104,510	88,042	121,330	93,712	*	*
Controller/Manager Finance	11	4	84,351	*	89,975	85,259	92,378	87,663	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	11	4	*	*	77,720	63,614	90,465	76,360	*	*
Customer Service Supervisor	11	4	*	*	66,303	59,768	74,031	67,496	*	*
Financial/Business Analyst	11	3	56,844	79,533	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

1 - SEC - 2 - Attachment 5 25 of 71

									1	- SEC - 2 - Attach
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

26 of 71

#### Compensation Analysis: By Gross Revenue Grouping

Table 10: LDCs Gross Revenue \$20,000,001 to \$50,000,000 Million

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	10	10	135,579	158,736	149,351	139,854	154,547	145,900	*	*
V.P. Operations & Engineering/COO	10	5	95,763	114,474	114,318	110,849	118,450	115,000	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	10	3	76,454	94,441	92,933	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	10	6	76,203	93,761	93,541	88,660	98,230	94,200	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	10	9	74,611	88,674	86,046	84,419	87,870	86,546	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	10	3	*	*	68,365	*	*	*	*	*
Administrative Assistant	10	3	47,339	56,755	54,040	*	*	*	*	*
Director/VP Finance/CFO	10	8	99,418	118,155	110,319	105,137	115,296	109,060	*	*
Controller/Manager Finance	10	4	*	*	88,129	85,903	98,657	96,431	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	10	3	*	*	78,227	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	10	3	*	*	104,681	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	*	*	*	*	*	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

										Interrogatories from - SEC - 2 - Attachi
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	10	3	*	*	63,588	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	10	3	*	*	84,360	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

28 of 71

### Compensation Analysis: By Gross Revenue Grouping

Table 11: LDCs <u>Gross Revenue \$50,000,001 to \$100,000,000 Million</u>

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	10	8	120,830	161,795	161,131	149,509	161,510	155,824	13	15
V.P. Operations & Engineering/COO	10	5	113,581	136,967	135,300	131,943	139,564	133,397	*	*
Director/V.P. Operations	10	4	97,681	117,018	108,300	*	*	*	*	*
Director/V.P. Engineering	10	4	104,788	123,432	122,014	113,499	129,994	121,479	*	*
Engineering Manager	10	6	85,016	107,959	99,900	95,057	106,487	97,149	*	*
Distribution Engineer	10	4	71,899	100,203	90,089	*	*	*	*	*
Engineering Supervisor	10	4	74,742	98,491	96,444	87,104	101,243	91,904	*	*
Operations Manager or Superintendent	10	10	82,370	102,137	97,102	92,778	100,531	94,870	4	4
Control Centre Supervisor	10	3	*	94,626	94,626	*	*	*	*	*
Meter Shop Supervisor	10	6	73,773	91,157	88,960	83,626	91,833	90,306	*	*
Line Supervisor	10	16	73,621	92,496	88,065	84,638	90,780	88,002	*	*
Purchasing/Procurement Manager	10	3	72,045	88,021	85,800	*	*	*	*	*
Stores/Inventory Control Supervisor	10	3	60,815	77,377	76,651	*	*	*	*	*
Executive Assistant (to President)	10	8	54,289	66,426	66,087	63,085	71,049	64,592	*	*
Administrative Assistant	10	5	42,205	54,333	51,094	*	*	*	*	*
Director/VP Finance/CFO	10	9	228,792	129,947	129,942	114,955	133,935	131,943	5	5
Controller/Manager Finance	10	6	76,274	101,285	95,873	89,747	103,977	97,851	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	10	3	64,275	78,496	73,736	*	*	*	*	*
Director or VP, Customer Service	10	3	91,498	119,287	119,287	*	*	*	*	*
Manager, Customer Service	10	5	77,696	100,769	100,769	99,346	107,066	102,402	4	4
Customer Service Supervisor	10	7	60,772	76,958	74,756	68,819	80,892	75,000	*	*
Financial/Business Analyst	10	9	61,877	78,794	72,741	60,723	82,292	71,198	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	10	5	64,919	85,337	82,418	73,752	91,100	79,089	*	*

										Interrogatories fro - SEC - 2 - Attach
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	10	7	65,396	81,850	77,836	72,569	80,480	77,000	*	*
Conservation & DM Officer	10	6	59,868	73,065	66,144	54,330	78,835	66,965	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	10	7	72,647	94,444	89,316	81,170	101,467	88,551	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	10	7	59,196	75,223	72,849	71,828	78,833	75,000	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	10	3	59,722	76,113	69,562	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	10	3	73,690	91,996	88,513	*	*	*	*	*

30 of 71

#### Compensation Analysis: By Gross Revenue Grouping

Table 12: LDCs Gross Revenue \$100,000,001 to \$200,000,000 Million

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	11	9	148,012	191,802	182,385	174,900	183,860	181,200	17	20
V.P. Operations & Engineering/COO	11	6	123,651	157,931	137,697	129,781	145,359	137,846	14	17
Director/V.P. Operations	11	7	109,779	134,573	127,163	119,282	133,918	128,454	11	11
Director/V.P. Engineering	11	4	115,115	134,162	126,943	123,973	129,017	126,046	*	*
Engineering Manager	11	8	88,598	113,587	108,231	105,107	110,844	106,774	*	*
Distribution Engineer	11	4	77,913	97,781	86,280	*	*	*	*	*
Engineering Supervisor	11	10	72,487	94,837	85,496	82,563	87,674	87,178	4	7
Operations Manager or Superintendent	11	11	86,054	109,490	102,843	96,408	110,178	100,070	5	6
Control Centre Supervisor	11	6	79,714	100,818	94,122	86,583	99,549	94,363	*	*
Meter Shop Supervisor	11	8	76,968	96,729	90,711	86,382	95,125	88,535	*	*
Line Supervisor	11	32	75,929	95,892	89,790	85,987	90,681	89,460	5	6
Purchasing/Procurement Manager	11	8	72,499	92,407	86,001	83,434	89,423	85,582	4	6
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	11	12	56,566	70,551	69,875	65,675	72,978	71,647	4	4
Administrative Assistant	11	12	48,812	60,088	59,267	57,001	60,606	59,223	*	*
Director/VP Finance/CFO	11	9	110,425	142,798	137,247	130,625	141,370	139,254	11	14
Controller/Manager Finance	11	6	81,382	102,939	97,280	94,075	102,385	96,639	6	7
General Accounting Manager	11	6	76,998	99,644	91,186	83,563	98,744	89,234	5	5
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	11	7	68,308	87,632	80,953	76,071	85,204	80,524	4	5
Director or VP, Customer Service	11	5	95,733	117,146	112,119	107,212	114,915	113,300	*	*
Manager, Customer Service	11	5	78,474	103,265	93,188	89,150	97,370	91,811	5	7
Customer Service Supervisor	11	8	63,785	81,856	78,087	73,880	81,445	79,772	5	6
Financial/Business Analyst	11	10	65,952	83,156	75,128	71,581	78,830	76,491	4	5
Director or VP, Regulatory Affairs	11	3	102,087	143,290	131,426	*	*	*	*	*
Manager, Regulatory Affairs	11	7	72,503	96,328	88,003	80,493	91,039	86,946	5	6

										- SEC - 2 - Attack
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	11	5	68,161	82,759	79,690	70,012	84,261	79,552	5	5
Conservation & DM Officer	11	7	68,868	84,131	81,648	76,005	85,394	82,410	*	*
I.S. Director/VP	11	6	101,065	124,725	120,393	118,502	120,466	118,615	11	13
I.S. Manager	11	4	72,268	89,268	83,875	80,719	89,314	86,158	*	*
I.S. Supervisor/Computer Operations	11	3	77,073	*	92,015	*	*	*	*	*
Systems Administrator/Apps Support	11	16	63,803	81,034	82,203	76,192	87,463	81,081	4	4
Human Resources Director/VP	11	4	110,520	103,594	123,356	118,264	130,899	125,807	13	16
Human Resources Manager	11	5	79,557	101,971	94,262	90,000	100,944	91,332	6	7
Human Resources Generalist/Officer	11	5	56,888	73,082	66,413	64,343	68,801	66,731	*	*
Human Resources Assistant/Coord.	11	4	50,613	67,777	57,176	*	*	*	*	*
Manager Health & Safety/Loss Control	11	9	73,178	88,981	87,859	84,280	93,490	91,332	5	6

Filed: August 1, 2019

#### Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

32 of 71

#### Compensation Analysis: By Gross Revenue Grouping

Table 13: LDCs Gross Revenue Over \$200,000,001 Million

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	5	3	176,923	222,942	257,418	*	*	*	32	35
V.P. Operations & Engineering/COO	5	5	143,909	192,266	186,348	175,275	179,795	178,269	26	32
Director/V.P. Operations	5	4	115,888	154,964	145,133	132,263	147,888	135,019	15	22
Director/V.P. Engineering	5	4	109,580	145,125	132,971	112,035	145,759	124,824	15	20
Engineering Manager	5	7	91,279	115,820	107,083	107,827	115,339	108,022	10	14
Distribution Engineer	5	10	82,224	109,085	102,706	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	5	9	86,211	112,846	103,881	98,422	108,863	103,403	10	13
Control Centre Supervisor	5	6	77,915	98,914	94,595	89,100	98,469	93,516	10	12
Meter Shop Supervisor	5	7	77,458	96,612	92,213	85,425	98,521	95,878	8	9
Line Supervisor	5	28	78,615	99,678	95,165	92,248	97,136	96,260	10	12
Purchasing/Procurement Manager	5	5	84,374	108,079	100,926	93,500	111,583	107,147	11	14
Stores/Inventory Control Supervisor	5	6	68,650	85,908	85,427	78,998	92,030	91,021	7	9
Executive Assistant (to President)	5	5	61,954	76,412	72,509	64,750	80,995	71,541	8	9
Administrative Assistant	5	18	57,873	71,650	65,170	63,012	64,750	63,196	6	7
Director/VP Finance/CFO	5	5	149,476	199,215	191,170	175,275	202,044	178,269	28	34
Controller/Manager Finance	5	5	101,968	134,438	125,707	113,400	132,710	117,025	14	16
General Accounting Manager	5	5	81,426	104,920	96,980	90,100	98,521	94,500	12	13
Accounting Supervisor	5	12	68,810	86,103	82,619	72,990	85,560	84,686	7	9
Billing Supervisor	5	6	69,252	88,396	83,825	81,130	84,955	82,260	*	*
Director or VP, Customer Service	5	5	103,225	143,559	135,862	112,800	159,805	136,100	*	*
Manager, Customer Service	5	4	90,533	119,221	103,238	90,063	115,386	102,211	12	15
Customer Service Supervisor	5	9	69,394	86,188	81,910	78,118	84,457	81,875	8	9
Financial/Business Analyst	5	11	68,965	89,593	87,278	84,903	89,793	87,556	*	*
Director or VP, Regulatory Affairs	5	5	109,635	142,741	133,110	117,025	136,100	132,710	15	20
Manager, Regulatory Affairs	5	3	82,873	111,174	*	*	*	*	*	*

										Interrogatories fro - SEC - 2 - Attack
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	5	5	68,489	80,064	78,649	*	*	*	6	7
Conservation & DM Officer	5	4	85,361	111,677	103,181	96,774	112,950	106,544	10	11
I.S. Director/VP	5	5	110,376	148,434	140,048	132,710	150,416	133,806	17	22
I.S. Manager	5	5	94,052	123,749	113,669	105,331	119,185	110,848	13	18
I.S. Supervisor/Computer Operations	5	4	75,637	100,855	89,954	*	*	*	*	*
Systems Administrator/Apps Support	5	7	69,229	89,117	87,016	84,582	90,430	87,997	*	*
Human Resources Director/VP	5	5	105,292	141,718	133,169	107,827	152,891	132,710	17	22
Human Resources Manager	5	4	89,052	127,150	107,682	*	*	*	13	18
Human Resources Generalist/Officer	5	10	68,964	94,222	86,162	77,617	92,069	83,523	9	9
Human Resources Assistant/Coord.	5	9	55,355	68,976	64,271	61,402	66,540	61,973	5	7
Manager Health & Safety/Loss Control	5	7	86,831	109,644	100,578	89,897	107,147	97,758	11	15

34 of 71

#### Compensation Analysis: By District

Table 14: LDCs in District 'Georgian Bay'

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	8	7	135,579	163,562	149,469	136,219	153,150	141,500	*	*
V.P. Operations & Engineering/COO	8	3	*	*	113,650	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	8	3	83,824	98,158	96,650	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	8	6	78,878	94,041	93,681	88,660	98,230	94,200	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	8	5	*	*	85,692*	82,750	88,727	85,785	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	*	*	*	*	*	*	*	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	8	6	101,431	122,955	111,710	107,625	116,368	109,060	*	*
Controller/Manager Finance	8	4	*	*	88,580	85,903	99,439	96,761	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	*	*	*	*	*	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

										- SEC - 2 - Attach
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	8	3	*	*	84,360	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

36 of 71

#### Compensation Analysis: By District

**Table 15: LDCs in District 'Northeastern'** 

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	9	8	135,002	183,728	166,645	153,901	176,675	163,742	22	22
V.P. Operations & Engineering/COO	9	6	115,823	159,835	151,118	135,221	170,330	143,603	20	24
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	9	7	88,175	115,986	107,053	100,702	115,810	110,178	9	10
Distribution Engineer	9	7	74,027	101,841	90,719	*	*	*	*	*
Engineering Supervisor	9	4	81,361	107,311	99,773	*	*	*	*	*
Operations Manager or Superintendent	9	11	85,566	112,241	100,073	96,329	108,512	100,930	7	8
Control Centre Supervisor	9	6	80,556	102,464	95,101	90,306	98,469	97,365	*	*
Meter Shop Supervisor	9	6	78,020	97,295	92,944	90,610	95,878	93,380	*	*
Line Supervisor	9	23	76,158	99,318	90,726	86,920	94,254	90,610	*	*
Purchasing/Procurement Manager	9	1	91,543	107,147	107,147	85,025	108,710	97,738	10	12
Stores/Inventory Control Supervisor	9	4	63,208	83,556	82,754	*	*	*	*	*
Executive Assistant (to President)	9	7	57,810	73,705	69,712	64,080	76,661	71,197	*	*
Administrative Assistant	9	16	51,996	66,400	63,113	59,719	63,859	61,919	*	*
Director/VP Finance/CFO	9	7	122,668	162,864	143,449	131,820	159,036	133,397	21	26
Controller/Manager Finance	9	8	82,612	111,390	102,365	97,970	111,050	102,402	9	10
General Accounting Manager	9	3	82,639	107,362	101,062	*	*	*	*	*
Accounting Supervisor	9	6	64,725	85,198	81,399	79,073	84,905	82,578	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	9	4	97,637	141,257	132,688	123,376	142,770	133,458	*	*
Manager, Customer Service	9	8	77,490	99,464	90,952	87,467	98,628	90,086	9	10
Customer Service Supervisor	9	5	65,330	85,426	81,698	80,350	82,521	81,173	*	*
Financial/Business Analyst	9	12	60,018	80,418	76,499	71,198	82,249	81,772	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	9	4	72,724	100,655	93,642	87,358	97,323	91,039	*	*

EB-2019-0032 Filed: August 1, 2019 Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	9	4	71,556	99,111	85,920	73,463	101,378	88,920	*	*
I.S. Director/VP	9	3	104,100	143,542	129,380	*	*	*	18	23
I.S. Manager	9	5	78,340	110,939	97,998	83,250	102,402	89,150	10	13
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	9	8	60,258	81,361	79,260	77,639	81,877	80,256	*	*
Human Resources Director/VP	9	3	96,814	98,362	124,492	*	*	*	18	23
Human Resources Manager	9	4	85,215	125,289	109,484	*	*	*	*	*
Human Resources Generalist/Officer	9	9	58,744	87,100	73,667	68,223	80,318	74,875	*	*
Human Resources Assistant/Coord.	9	7	52,976	69,005	60,226	*	*	*	*	*
Manager Health & Safety/Loss Control	9	4	89,467	117,555	106,855	101,144	110,485	104,775	13	17

38 of 71

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

#### Compensation Analysis: By District

Table 16: LDCs in District 'Niagara Grand'

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	12	11	122,637	149,771	144,879	127,938	158,807	142,538	*	*
V.P. Operations & Engineering/COO	12	5	114,134	126,867	123,785	119,790	131,943	125,080	*	*
Director/V.P. Operations	12	5	107,966	127,823	122,920	115,465	128,454	123,560	*	*
Director/V.P. Engineering	12	6	110,566	130,423	118,723	117,489	127,014	123,835	*	*
Engineering Manager	12	4	85,029	102,719	98,911	92,368	105,513	98,970	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	12	6	72,930	93,128	87,985	86,362	89,477	87,854	*	*
Operations Manager or Superintendent	12	10	83,100	104,621	98,154	94,968	99,008	96,740	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	12	8	73,766	91,099	86,671	81,065	90,733	86,619	*	*
Line Supervisor	12	29	72,959	91,093	86,340	84,570	87,903	85,925	*	*
Purchasing/Procurement Manager	12	7	72,863	92,626	87,381	79,495	96,025	84,348	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	12	10	53,432	67,781	65,630	60,941	68,500	66,387	*	*
Administrative Assistant	12	7	45,955	55,676	54,762	*	*	*	*	*
Director/VP Finance/CFO	12	10	96,532	121,104	116,729	102,216	131,207	114,580	*	*
Controller/Manager Finance	12	3	79,250	*	91,198	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	12	7	68,587	85,538	79,696	76,456	82,833	80,524	*	*
Director or VP, Customer Service	12	4	97,516	115,672	110,233	101,498	117,214	108,479	*	*
Manager, Customer Service	12	4	74,385	99,982	88,747	85,116	98,937	95,306	*	*
Customer Service Supervisor	12	11	63,241	80,283	70,240	61,761	77,989	72,608	*	*
Financial/Business Analyst	12	12	63,231	79,894	77,227	71,581	83,584	78,830	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	12	4	75,438	95,649	89,813	75,546	102,012	87,745	*	*

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

									1	- SEC - 2 - Attac
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	12	5	62,906	77,443	73,614	*	*	*	*	*
Conservation & DM Officer	12	7	63,726	77,105	72,566	62,369	83,379	80,778	*	*
I.S. Director/VP	12	3	101,602	117,410	117,411	*	*	*	*	*
I.S. Manager	12	5	70,855	89,048	84,628	73,400	89,804	88,551	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	12	10	60,665	78,708	74,375	64,400	81,081	79,166	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	12	4	*	*	55,925	*	*	*	*	*
Manager Health & Safety/Loss Control	12	6	69,679	90,191	82,989	76,227	90,856	86,461	*	*

#### Compensation Analysis: By District

Table 17: LDCs in District 'North Western'

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	4	4	*	*	124,713	109,526	133,629	118,442	*	*
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	*	*	*	*	*	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	4	4	78,605	*	94,359	*	*	*	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	*	*	*	*	*	*	*	*	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	*	*	*	*	*	*	*	*	*
Administrative Assistant	4	4	*	*	44,821	*	*	*	*	*
Director/VP Finance/CFO	*	*	*	*	*	*	*	*	*	*
Controller/Manager Finance	*	*	*	*	*	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	*	*	*	*	*	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

42 of 71

Filed: August 1, 2019

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

#### Compensation Analysis: By District

Table 18: LDCs in District 'Upper Canada'

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	7	4	*	216,130	206,664	171,808	220,000	200,000	17	23
V.P. Operations & Engineering/COO	7	3	*	*	170,397	*	*	*	*	*
Director/V.P. Operations	7	4	119,844	144,254	144,615	*	*	*	*	*
Director/V.P. Engineering	7	3	122,567	143,447	139,945	*	*	*	*	*
Engineering Manager	7	5	87,803	119,918	109,019	105,698	111,145	107,825	6	8
Distribution Engineer	7	5	85,723	109,312	100,958	*	*	*	5	8
Engineering Supervisor	7	10	73,110	96,641	85,792	81,121	87,863	83,192	5	8
Operations Manager or Superintendent	7	7	86,867	111,860	104,033	93,300	111,583	102,067	5	7
Control Centre Supervisor	7	3	75,903	99,594	95,920	*	*	*	4	8
Meter Shop Supervisor	7	5	79,016	104,762	96,742	94,577	101,777	99,612	5	8
Line Supervisor	7	17	76,683	99,736	91,817	88,024	97,000	90,640	5	7
Purchasing/Procurement Manager	7	3	77,139	103,437	94,249	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	7	7	57,725	70,442	65,463	63,194	71,594	71,000	4	6
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	7	6	119,220	161,339	153,793	118,536	176,763	157,650	10	15
Controller/Manager Finance	7	5	93,879	122,965	112,420	93,300	108,292	104,030	7	9
General Accounting Manager	7	3	87,471	*	101,297	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	7	6	67,446	87,923	80,568	72,183	91,507	83,122	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	7	5	86,486	119,397	100,848	87,687	107,600	104,650	6	9
Customer Service Supervisor	7	5	*	85,737	81,161	73,928	88,183	80,950	5	7
Financial/Business Analyst	7	5	69,825	90,743	77,273	69,348	83,758	75,833	5	7
Director or VP, Regulatory Affairs	7	3	112,693	154,053	143,200	*	*	*	*	*
Manager, Regulatory Affairs	7	4	72,137	95,283	88,093	81,406	93,397	86,710	5	7

									Responses to	Filed: August
									1	- SEC - 2 - Attac
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	7	5	69,870	87,309	77,907	70,012	84,261	77,000	6	7
Conservation & DM Officer	7	3	*	80,878	77,481	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	7	10	69,416	87,711	72,655	66,438	81,883	75,666	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	7	4	81,230	108,318	98,465	90,999	103,604	96,138	6	8
Human Resources Generalist/Officer	7	3	63,835	82,506	75,304	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	7	5	78,175	95,810	95,048	*	*	*	6	7

#### Compensation Analysis: By District

Table 19: LDCs in District 'Western'

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	7	6	146,986	179,425	179,702	157,432	200,129	181,240	22	30
V.P. Operations & Engineering/COO	7	5	126,345	158,163	143,366	122,532	169,125	139,050	23	27
Director/V.P. Operations	7	4	107,662	137,567	126,640	124,995	133,461	131,816	13	13
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	7	6	85,411	108,698	99,907	95,811	106,397	102,301	8	10
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	7	5	82,268	105,384	96,632	93,833	98,850	97,136	8	9
Control Centre Supervisor	7	3	80,638	98,594	96,179	*	*	*	*	*
Meter Shop Supervisor	7	3	74,325	88,235	86,745	*	*	*	*	*
Line Supervisor	7	13	75,301	92,838	88,702	85,413	91,005	89,893	7	8
Purchasing/Procurement Manager	7	3	69,873	85,559	81,203	*	*	*	*	*
Stores/Inventory Control Supervisor	7	3	65,193	78,462	79,130	*	*	*	*	*
Executive Assistant (to President)	7	6	60,065	75,535	70,410	64,803	75,383	68,915	4	5
Administrative Assistant	7	8	54,155	64,681	59,967	58,398	60,978	59,408	*	*
Director/VP Finance/CFO	7	7	115,971	144,440	138,827	122,790	158,463	135,960	18	22
Controller/Manager Finance	*	*	*	*	*	*	*	*	*	*
General Accounting Manager	7	5	71,876	88,837	84,665	82,596	90,100	83,165	*	*
Accounting Supervisor	7	8	63,519	80,653	74,536	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	7	4	93,220	115,070	110,285	107,673	112,925	110,314	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	7	7	62,519	80,762	77,181	75,434	78,917	77,170	4	6
Financial/Business Analyst	7	5	63,914	82,555	71,375	69,736	75,373	73,734	*	*
Director or VP, Regulatory Affairs	7	5	104,802	137,992	127,176	122,403	132,710	125,781	17	21
Manager, Regulatory Affairs	7	4	70,549	89,160	77,250	*	*	*	*	*

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	7	3	70,671	83,971	82,462	*	*	*	*	*
Conservation & DM Officer	7	4	74,667	93,093	86,962	77,130	92,877	83,045	*	*
I.S. Director/VP	7	3	105,873	129,558	129,190	*	*	*	*	*
I.S. Manager	7	4	82,910	*	97,864	*	*	*	*	*
I.S. Supervisor/Computer Operations	7	4	72,352	95,045	84,879	*	*	*	*	*
Systems Administrator/Apps Support	7	4	64,257	79,322	85,203	*	*	*	*	*
Human Resources Director/VP	7	4	101,355	121,294	117,497	106,329	128,888	117,721	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	7	4	73,520	85,424	86,042	83,810	88,167	85,935	*	*

46 of 71

#### Compensation Analysis: By Employee Size

Table 20: LDCs 1 to 20 Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	9	8	101,779	125,176	114,322	106,540	119,490	114,509	*	*
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	9	3	85,347	98,070	94,280	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	9	5	78,875	*	91,857	89,951	97,900	92,594	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	*	*	*	*	*	*	*	*	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	*	*	*	*	*	*	*	*	*	*
Administrative Assistant	9	3	47,209	55,229	*	*	*	*	*	*
Director/VP Finance/CFO	9	3	*	*	87,165	*	*	*	*	*
Controller/Manager Finance	9	6	84,333	98,997	86,592	84,603	96,799	87,663	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	*	*	*	*	*	*	*	*	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

1 - SEC - 2 - Attachment 5 47 of 71

47	of	

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

48 of 71

#### Compensation Analysis: By Employee Size

Table 21: LDCs 21 to 40 Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	9	9	121,585	156,403	144,220	139,435	155,197	141,500	*	*
V.P. Operations & Engineering/COO	9	6	98,073	123,606	118,440	111,887	119,455	116,725	*	*
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	9	3	77,027	102,724	*	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	9	6	78,653	101,321	94,440	88,660	99,256	94,577	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	*	*	*	*	*	*	*	*	*
Line Supervisor	9	10	71,581	88,801	83,909	81,570	86,080	84,419	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	9	4	*	*	65,804	61,436	75,306	70,938	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	9	8	95,479	120,708	108,526	98,251	115,296	107,750	*	*
Controller/Manager Finance	*	*	*	*	*	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	9	4	66,587	88,383	78,932	74,360	82,535	77,964	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	9	4	*	*	65,027	61,367	65,406	61,746	*	*
Financial/Business Analyst	*	*	*	*	*	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

Responses to interrogatories fro 1 - SEC - 2 - Attach										
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 50 of 71

## Compensation Analysis: By Employee Size

Table 22: LDCs 41 to 70 Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	11	8	128,085	170,160	163,269	142,538	157,019	150,300	*	*
V.P. Operations & Engineering/COO	11	3	*	*	131,159	*	*	*	*	*
Director/V.P. Operations	11	4	101,195	118,420	106,657	*	*	*	*	*
Director/V.P. Engineering	11	3	110,996	126,087	124,197	*	*	*	*	*
Engineering Manager	11	5	82,557	105,597	94,788	94,870	98,681	95,618	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	11	3	84,236	102,760	96,030	*	*	*	*	*
Operations Manager or Superintendent	11	9	83,228	106,033	96,028	92,700	97,072	94,870	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	*	4	69,752	89,699	83,800	81,065	84,185	81,450	*	*
Line Supervisor	*	11	74,585	96,385	88,703	86,700	91,288	87,570	*	*
Purchasing/Procurement Manager	*	*	*	*	*	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	11	8	55,093	68,870	67,447	63,655	71,310	67,950	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	11	9	104,073	131,617	128,077	110,120	140,789	129,000	*	*
Controller/Manager Finance	11	6	77,026	101,165	95,898	93,300	104,030	94,370	*	*
General Accounting Manager	11	3	80,445	102,809	92,425	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	11	5	79,840	105,949	101,109	98,800	107,066	104,650	5	7
Customer Service Supervisor	11	6	58,995	78,299	74,866	71,359	79,736	74,150	*	*
Financial/Business Analyst	11	9	61,522	79,746	71,236	61,821	76,099	70,665	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	11	5	60,067	81,835	79,195	73,752	83,230	79,089	*	*

										Interrogatories fro - SEC - 2 - Attach
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	11	3	69,330	*	80,580	*	*	*	*	*
Conservation & DM Officer	11	4	66,449	79,422	66,220	58,110	73,941	65,831	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	11	5	64,731	89,292	78,430	73,400	83,250	79,089	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	11	5	56,030	74,573	67,941	64,400	73,093	70,562	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	11	3	*	*	88,360	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	*	*	*	*	*	*	*	*	*	*

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 52 of 71

## Compensation Analysis: <u>By Employee Size</u>

Table 23: LDCs 71 to 100 Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	4	3	*	*	179,008				*	*
V.P. Operations & Engineering/COO	4	4	126,610	162,442	138,598	129,590	148,437	139,429	*	*
Director/V.P. Operations	4	3	100,291	115,233	112,560	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	*	*	*	*	*	*	*	*	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	4	6	75,002	101,224	86,467	86,272	87,869	87,674	*	*
Operations Manager or Superintendent	4	3	79,911	109,556	97,084	*	*	*	*	*
Control Centre Supervisor	*	*	*	*	*	*	*	*	*	*
Meter Shop Supervisor	4	3	79,112	108,295	96,170	*	*	*	*	*
Line Supervisor	4	8	73,158	98,160	85,829	84,106	87,015	85,292	*	*
Purchasing/Procurement Manager	4	3	75,851	103,413	92,721	*	*	*	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	4	5	52,577	66,637	63,363	61,866	64,121	62,624	*	*
Administrative Assistant	*	*	*	*	*	*	*	*	*	*
Director/VP Finance/CFO	4	3	115,831	170,723	152,587	*	*	*	*	*
Controller/Manager Finance	*	*	*	*	*	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	*	*	*	*	*	*	*	*	*	*
Manager, Customer Service	4	3	78,407	106,864	91,372	*	*	*	*	*
Customer Service Supervisor	*	*	*	*	*	*	*	*	*	*
Financial/Business Analyst	4	4	67,244	88,827	77,691	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	4	4	75,139	106,864	91,919	80,740	102,012	90,833	*	*

1 - SEC - 2 - Attachment 5 53 of 71

									1	- SEC - 2 - Attach
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	*	*	*	*	*	*	*	*	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	*	*	*	*	*	*	*	*	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	4	3	73,685	93,542	81,613	*	*	*	*	*

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 54 of 71

## Compensation Analysis: <u>By Employee Size</u>

Table 24: LDCs 101 to 150 Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	5	5	149,698	176,821	176,821	161,790	179,495	174,900	*	*
V.P. Operations & Engineering/COO	*	*	*	*	*	*	*	*	*	*
Director/V.P. Operations	5	3	110,492	132,096	132,096	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	5	4	89,166	106,314	107,064	105,208	109,361	107,505	*	*
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	5	6	87,211	103,598	102,998	100,070	110,178	100,531	*	*
Control Centre Supervisor	5	4	78,784	95,687	94,569	88,749	99,504	93,684	*	*
Meter Shop Supervisor	5	4	75,526	88,661	86,776	84,011	90,965	88,200	*	*
Line Supervisor	5	17	76,312	91,470	91,291	89,460	90,721	89,804	*	*
Purchasing/Procurement Manager	5	4	68,947	80,835	79,397	78,296	82,166	81,065	*	*
Stores/Inventory Control Supervisor	*	*	*	*	*	*	*	*	*	*
Executive Assistant (to President)	5	5	56,375	67,689	69,782	64,963	73,610	66,387	*	*
Administrative Assistant	5	8	47,051	59,781	58,038	55,439	60,425	57,827	*	*
Director/VP Finance/CFO	5	5	112,587	135,602	135,602	132,824	139,254	133,935	*	*
Controller/Manager Finance	5	3	81,769	96,617	94,660	*	*	*	*	*
General Accounting Manager	*	*	*	*	*	*	*	*	*	*
Accounting Supervisor	*	*	*	*	*	*	*	*	*	*
Billing Supervisor	5	4	68,906	81,573	80,622	*	*	*	*	*
Director or VP, Customer Service	5	3	*	122,979	121,531	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	5	5	61,205	75,940	76,896	*	*	*	*	*
Financial/Business Analyst	5	3	67,318	80,392	79,084	*	*	*	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	5	3	66,758	79,219	77,717	*	*	*	*	*
Conservation & DM Officer	5	5	68,413	82,209	82,209	73,930	86,440	84,348	*	*
I.S. Director/VP	*	*	*	*	*	*	*	*	*	*
I.S. Manager	*	*	*	*	*	*	*	*	*	*
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	5	5	66,016	78,658	86,325	79,561	93,615	86,851	*	*
Human Resources Director/VP	*	*	*	*	*	*	*	*	*	*
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	*	*	*	*	*	*	*	*	*	*
Human Resources Assistant/Coord.	*	*	*	*	*	*	*	*	*	*
Manager Health & Safety/Loss Control	5	5	70,792	85,207	85,930	82,400	93,490	90,002	*	*

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

56 of 71

## Compensation Analysis: <u>By Employee Size</u>

Table 25: LDCs 151 to 300 Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	5	4	*	*	190,424	179,116	194,238	182,930	*	*
V.P. Operations & Engineering/COO	5	4	126,295	164,376	157,025	141,896	176,024	160,895	17	20
Director/V.P. Operations	*	*	*	*	*	*	*	*	*	*
Director/V.P. Engineering	*	*	*	*	*	*	*	*	*	*
Engineering Manager	5	6	92,275	114,128	107,826	105,786	116,280	112,840	8	10
Distribution Engineer	*	*	*	*	*	*	*	*	*	*
Engineering Supervisor	*	*	*	*	*	*	*	*	*	*
Operations Manager or Superintendent	5	5	83,147	105,127	100,230	*	*	*	8	8
Control Centre Supervisor	5	3	81,250	92,762	86,837	*	*	*	*	*
Meter Shop Supervisor	5	5	75,721	89,498	88,652	86,332	90,610	86,840	8	8
Line Supervisor	5	20	75,896	91,344	88,545	85,670	90,610	89,893	10	10
Purchasing/Procurement Manager	5	4	83,581	102,211	97,160	92,207	101,534	96,582	12	12*
Stores/Inventory Control Supervisor	5	4	63,990	77,178	77,178	71,030	82,419	76,271	7	7
Executive Assistant (to President)	5	5	62,068	75,227	74,840	72,400	80,995	73,406	8	8
Administrative Assistant	5	8	54,558	66,025	62,584	59,720	61,025	60,825	6	6
Director/VP Finance/CFO	5	5	125,021	154,890	147,815	130,816	175,275	139,802	20	20
Controller/Manager Finance	5	4	93,763	117,949	112,396	101,164	120,946	109,714	11	11
General Accounting Manager	5	3	83,705	101,583	91,126	*	*	*	*	*
Accounting Supervisor	5	5	67,936	81,494	79,673	*	*	*	7	7
Billing Supervisor	*	*	*	*	*	*	*	*	*	*
Director or VP, Customer Service	5	5	95,130	128,902	124,474	112,800	130,816	114,915	12	15
Manager, Customer Service	5	4	79,779	98,609	92,441	88,660	93,866	90,086	10	10
Customer Service Supervisor	5	6	66,964	81,542	80,518	79,552	80,470	79,991	8	8
Financial/Business Analyst	5	5	62,121	77,974	73,830	68,616	81,891	76,677	*	*
Director or VP, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*
Manager, Regulatory Affairs	*	*	*	*	*	*	*	*	*	*

										Interrogatories fro - SEC - 2 - Attack
Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	5	5	65,861	79,581	78,520	72,437	82,317	76,234	6	6
Conservation & DM Officer	5	3	76,733	96,625	91,893	*	*	*	*	*
I.S. Director/VP	5	4	103,431	126,869	122,283	115,812	131,110	124,638	17	17
I.S. Manager	5	4	79,673	101,138	96,144	*	*	*	8	8
I.S. Supervisor/Computer Operations	*	*	*	*	*	*	*	*	*	*
Systems Administrator/Apps Support	5	7	60,420	77,624	77,624	77,273	80,148	79,797	*	*
Human Resources Director/VP	5	3	98,960	84,412	113,638	*	*	*	17	17
Human Resources Manager	*	*	*	*	*	*	*	*	*	*
Human Resources Generalist/Officer	5	4	67,693	80,236	75,822	*	*	*	*	*
Human Resources Assistant/Coord.	5	3	53,392	62,645	59,666	*	*	*	*	*
Manager Health & Safety/Loss Control	5	4	80,871	97,285	97,285	90,898	103,588	97,202	10	8

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 58 of 71

## Compensation Analysis: <u>By Employee Size</u>

Table 26: LDCs 301+ Employees

Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
President/CEO/GM	4	3	*	*	239,564	*	*	*	22	25
V.P. Operations & Engineering/COO	4	3	*	*	192,733	*	*	*	25	33
Director/V.P. Operations	4	4	114,628	155,488	148,974	135,726	155,949	142,701	12	17
Director/V.P. Engineering	4	3	112,266	152,139	141,461	*	*	*	*	*
Engineering Manager	4	5	89,836	119,006	112,926	107,973	116,633	111,681	7	10
Distribution Engineer	4	12	80,778	107,320	98,228	91,895	104,601	98,268	*	*
Engineering Supervisor	4	9	75,468	101,673	90,319	85,754	96,812	94,173	*	*
Operations Manager or Superintendent	4	9	87,694	116,334	109,298	105,251	113,816	109,770	7	10
Control Centre Supervisor	4	4	76,882	102,401	99,095	*	*	*	*	*
Meter Shop Supervisor	4	6	77,458	102,458	96,959	93,265	101,777	98,083	*	*
Line Supervisor	4	23	78,904	104,267	98,421	96,917	100,072	98,568	*	*
Purchasing/Procurement Manager	4	4	78,427	104,503	97,258	83,538	112,037	98,317	*	*
Stores/Inventory Control Supervisor	4	4	66,598	88,509	87,707	*	*	*	*	*
Executive Assistant (to President)	4	4	55,153	72,852	67,963	64,316	71,793	68,146	*	*
Administrative Assistant	4	15	52,508	70,030	63,653	*	*	*	*	*
Director/VP Finance/CFO	4	4	126,769	180,678	178,230	154,497	209,317	185,585	21	28
Controller/Manager Finance	4	4	91,672	125,130	115,849	91,285	128,022	103,458	8	12
General Accounting Manager	4	3	78,589	106,504	98,759	*	*	*	*	*
Accounting Supervisor	4	8	66,865	88,835	84,848	*	*	*	*	*
Billing Supervisor	4	6	68,315	90,115	86,177	81,635	91,507	86,964	*	*
Director or VP, Customer Service	4	3	103,793	143,644	134,577	*	*	*	*	*
Manager, Customer Service	*	*	*	*	*	*	*	*	*	*
Customer Service Supervisor	4	6	66,598	88,509	82,325	*	*	*	*	*
Financial/Business Analyst	4	10	67,069	89,626	81,660	*	*	*	*	*
Director or VP, Regulatory Affairs	4	3	108,585	150,233	138,604	*	*	*	*	*
Manager, Regulatory Affairs	4	4	78,301	103,968	97,451	89,476	106,844	100,287	7	10

1 - SEC - 2 - Attachment 5 59 of 71

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Position	# of Companies	# of Incumbents	Average Range Minimum	Average Range Maximum	Mean (Average Actual)	P25	P75	Median	Average Incentive Target%	Average Incentive Maximum%
Settlement/Rate Analyst	*	*	*	*	*	*	*	*	*	*
Conservation & DM Officer	4	4	76,127	101,243	93,020	82,716	103,565	93,262	*	*
I.S. Director/VP	4	3	113,633	163,014	153,461	*	*	*	*	*
I.S. Manager	4	4	88,401	117,996	107,794	99,457	119,185	110,848	10	15
I.S. Supervisor/Computer Operations	4	4	75,637	100,855	89,954	*	*	*	*	*
Systems Administrator/Apps Support	4	12	68,278	89,995	85,214	82,780	90,430	87,997	*	*
Human Resources Director/VP	4	3	105,160	151,821	141,996	*	*	*	*	*
Human Resources Manager	4	4	83,513	122,072	108,093	*	*	*	*	*
Human Resources Generalist/Officer	4	8	62,935	95,412	85,163	*	*	*	*	*
Human Resources Assistant/Coord.	4	8	52,745	70,634	62,483	58,620	67,835	63,971	*	*
Manager Health & Safety/Loss Control	4	6	82,902	111,204	99,872	90,973	103,444	94,545	10	15

1 - SEC - 2 - Attachment 5 60 of 71

## Perquisites - All LDCs

Table 27: Perquisites by Position Level

Perquisite:	CEO/President	Executive	Middle Management	Not Applicable
Company car for business or personal use	17	12	11	22
Association or professional membership dues	39	42	37	4
Supplemental Group Life Insurance	28	27	26	14
Executive training programs or coaching	39	36	25	4
Personal computer for home use	20	16	13	21
Cellular phone for business or personal use	46	45	40	0
Employee Assistance Programs (EAPs)	41	41	40	5
Educational reimbursement	43	44	42	2
Extended vacation allowance	9	8	6	29
Outplacement counselling	11	11	11	30
Flex time	16	17	14	24
Fitness or recreational club memberships or access	17	17	15	25
Financial or legal counselling	8	7	8	32

No. of companies reporting = 47

Actual prevalence response - multiple responses accepted

## **Table 28: Other Perquisites Noted**

Other Per	auisites	

Three annual vacation floaters

1 week in lieu of overtime

Energy Efficient Interest Free Loans up to \$5000 / Computer Interest free loans up to \$4000 / Health Club Memberships up to \$400 / Wellness Fund reimbursements up to \$300 / Tuition Subsidies and Volunteer Subsidies

STD paid @ 100%, Group RSP,

6 weeks after 26 years

Health Services Spending Account - \$1,100

Every third Friday off, 2 floater days per calendar year

Computer Acquistion Program

1 additional floater holiday upon start date; 1 additional floater holiday after 25 years of service

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

61 of 71

Table 29: Mileage & Auto

CEO Average Monthly car allowance (26 respondents)	\$610.00
Executive Average Monthly car allowance (18 respondents)	\$515.00
Average Mileage Reimbursement (47 respondents)	0.486

**Table 30: Service Periods for Vacation Entitlement** 

Years of Service:	Eligible for 2 weeks	Eligible for 3 weeks	Eligible for 4 weeks	Eligible for 5 weeks	Eligible for 6 or more weeks
CEO/Pres - 3 years service	5	18	12	8	1
CEO/Pres - 5 years service		21	11	8	3
CEO/Pres - 10 years service		1	4	11	7
CEO/Pres - 15 years service			16	17	9
CEO/Pres - 20 years service				26	15
CEO/Pres - 25 years service				8	33
Executive- 3 years service	6	24	11	2	
Executive- 5 years service		27	12	3	1
Executive- 10 years service		1	31	7	5
Executive- 15 years service			20	17	5
Executive- 20 years service				30	11
Executive- 25 years service				9	33
Middle Management- 3 years service	6	32	5	1	
Middle Management- 5 years service		33	9	2	
Middle Management- 10 years service		1	35	5	2
Middle Management- 15 years service			21	19	3
Middle Management- 20 years service			1	32	8
Middle Management- 25 years service				9	34
Professionals - 3 years service	8	27	4		
Professional - 5 years service		31	8		
Professional - 10 years service		1	34	4	
Professional - 15 years service			20	17	1
Professional - 20 years service				31	7
Professional - 25 years service				9	29
Admin - 3 years service	8	28	3		
Admin - 5 years service		34	6		
Admin - 10 years service		1	36	3	
Admin - 15 years service			22	16	1
Admin - 20 years service			32	32	6
Admin - 25 years service				10	28

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5 62 of 71

## **Base Compensation Planning**

## 2011 Actual Average Base Pay Increase:

Out of 44 respondents, the actual average base pay increase for 2011 was 3.27%. Increases ranged from a low of 1.88% to a high of 8%.

Percentile	% Increase
N	44
25th Percentile	2.73
50th Percentile	3.00
75th Percentile	3.00
Average	3.27

#### **2011 Compensation Structure Adjustment:**

If your company uses a formal salary range (compensation) structure, by what percentage did you increase the structure in 2011? (E.g. 1%; 2% etc.). 30 Respondents indicated that the structure was adjusted by 2.54% on average. The range was from 0 to 3.25%.

Percentile	% Increase
N	30
25th Percentile	2.13
50th Percentile	3.00
75 <sup>th</sup> Percentile	3.00
Average	2.54

#### 2012 Projected Average Salary Increase:

The average response indicates that the projected 2012 average base pay increase will be 2.97%. Increases range from a low of 1.5% to a high of 5.3%.

Percentile	% Increase
N	31
25 <sup>th</sup> Percentile	2.75
50th Percentile	3.00
75 <sup>th</sup> Percentile	3.00
Average	2.97

#### **2012 Projected Compensation Structure Adjustment:**

By what percentage does your organization plan to increase the salary range/compensation structure in 2012? The average increase in the salary structure will increase by 2.64%. The range was from 0 to 3%.

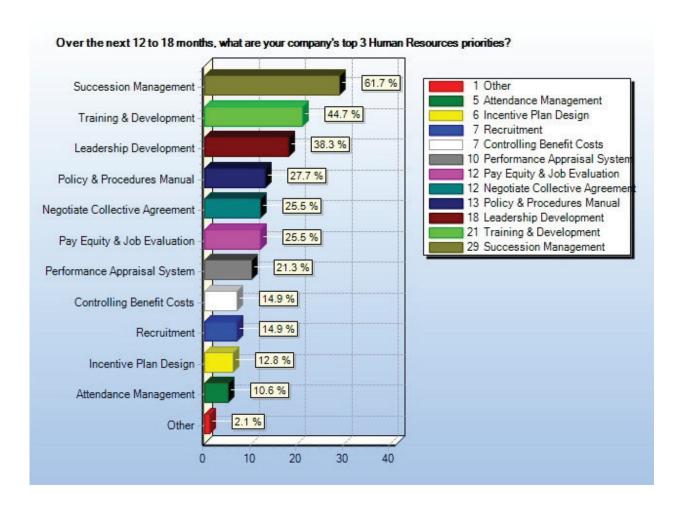
Percentile	% Increase
N	22
25 <sup>th</sup> Percentile	2.55
50th Percentile	3.00
75 <sup>th</sup> Percentile	3.00
Average	2.64

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 63 of 71

## **Top HR Priorities – 2012**

The top 3 priorities indicated for 2012 are:

- 1) Succession Management;
- 2) Training & Development and
- 3) Leadership Development.



Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 64 of 71

## Appendix:

## **MEARIE Management Salary Survey – Position Profiles 2011/2012**

The following is the 2011-2012 listing of benchmark positions for the survey. Please use them to guide you in identifying job matches.

Please note:

- ❖ Match your jobs to the survey jobs based on content, rather than job title
- Recognize that your incumbent need not perform all of the functions described in the survey job profile in order to have a valid job match. If 80% of job responsibilities are the same, then you likely have a good match. If not, another job match may be more appropriate or there may not be a good match in this survey.

The survey has not been designed to cover every possible job in your organization - the selected jobs are intended to be benchmarks, so please treat them accordingly. Generally, if you match between 40 to 50 percent of your key jobs to external data, you will be able to compare your salary st MEARIE Management & Board of Directors Compensation Survey –

#### **President, General Manager or CEO**

Directs the development of short and long term strategic plans, operational objectives, policies, budgets and operating plans for the organization, as approved by the Board of Directors. Establishes an organization hierarchy and delegates limits of authority to subordinate executives regarding policies, contractual commitments, expenditures and human resource matters. Represents the organization to the financial community, industry groups, government and regulatory agencies and the general public. This position may be titled 'General Manager' in smaller utilities.

#### **Vice President Operations & Engineering or Chief Operating Officer**

Highest ranking operations position. Reporting to the President/CEO, directs both the operations and engineering functions. Formulates and implements plans, budgets, policies and procedures to facilitate and improve processes. Establishes clear controls, objectives and measures to ensure safe and appropriate delivery of power and power related services. Evaluates the feasibility of new or revised systems or procedures and oversees operations and engineering to ensure compliance with established standards.

#### **Director or Vice President Operations**

Reporting to the President/CEO,2 plans and directs all operations functions (no engineering responsibility), of the utility. Formulates and implements plans, policies and procedures to facilitate and improve processes and establishes clear controls, objectives and measures to ensure safe and appropriate delivery of services and clarity of roles and responsibilities. Evaluates the feasibility of new or revised systems or procedures and oversees operations to ensure compliance with established standards.

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

65 of 71

#### **Director or Vice President Engineering**

Highest ranking engineering position. Plans and directs the overall engineering activities and engineering staff of the organization. Coordinates the creation, development, design and improvement of the organization's projects and products in conformance with established programs and objectives. Oversees plans, resources and budgets of the department aligned with business strategy.

#### **Engineering Manager**

Supervises and directs the work of an engineering division such as distribution, line design, transmission planning, distribution planning and/or civil engineering. Responsible for engineering work involving a wide scope of assignments. Handles personnel coordination and issues of the division, prepares estimates, specifications and designs, including the supervision, planning and scheduling of work within the division — Requires a P.Eng.

#### **Distribution Engineer**

Supervises engineering technicians or service technicians. Directs and coordinates the activities, schedules and projects of the construction and maintenance group of those involved with the distribution of electrical power from transformer substations, construction and maintenance of distribution systems. Consults with other department management on plant design, construction and maintenance. Prepares monthly operating reports, budget estimates, and work and materials specifications. Reviews and approves material requisitions, work authorizations and drawings for facilities. Requires a P.Eng. Typically reports to the Engineering Manager.

#### **Engineering Supervisor**

Supervises a small technical work group which may include CAD operators and/or engineering technicians. Coordinates the development and maintenance of engineering and construction standards and systems (GIS, AM/FM, CAD). Organizes, stores and maintains the integrity of hard copy file records, digital formats and mapping standards. Normally requires a C.E.T. or A.Sc. T. Typically reports to a professional engineer.

#### **Operations Manager or Superintendent**

Supervises, co-ordinates, directs, schedules and controls the construction, maintenance and personnel of the division, including budgets, transportation, equipment and material requirements and fleet management. Division responsibilities include construction, maintenance and repair of all overhead transmission, overhead and underground distribution and may include coordination of tree trimming for geographical area assigned to the division. In smaller utilities, a professional engineer may fill this role. In larger utilities, this function may be split into separate sections, each with a non-professional superintendent reporting to a Professional Engineer. Typically reports to VP Engineering and/or VP Operations.

Responses to interrogatories from SEC 1 - SEC - 2 - Attachment 5

66 of 71

#### **Control Centre Supervisor**

Directs and supervises control centre technical staff. Provides planning and coordination of control centre scheduling and maintenance required for the safe, reliable operation and control of the distribution system, including the authorization of the operation of system devices, equipment and control access to electrical plant and substations. Approves and coordinates system outages and switching as required for maintenance and system reliability. Oversees power interruptions and emergencies with dispatch staff to affect corrective measures for isolation, emergency repairs and restoration purposes. Monitors feeder load profiles.

#### **Meter Shop Supervisor**

Responsible for overall operation of the Meter department, including operations, budgeting and direction and supervision of meter technicians or other operations staff. Assigns, monitors and inspects the daily work and productivity of the staff in metering operations to ensure timely delivery of services, maintenance of equipment and identification of issues. Develops work plans for the department that include supervising meter re-verification, new meter installs, record maintenance and monitoring of meter maintenance, damage, reporting and theft issues. Ensures compliance with technical standards for equipment. Responsible for electronic meter programming and interaction with/operation of an MV90 or similar data collection system.

#### **Line Supervisor**

Coordinates and directs the Field Supervisor/s or lead journey person in the construction and maintenance of transmission and distribution lines and equipment. Works with Field Supervisors or lead journey person to develop plans and schedules required in directing and assigning a crew or crews of skilled trade staff in performing construction, maintenance and operation of the power transmission and distribution system lines in a safe and efficient manner. Supervises and coordinates subcontractors engaged in planning and executing work procedures, interpreting specifications and managing construction.

#### **Purchasing or Procurement Manager**

Responsible for all purchasing for all areas of the utility. Negotiates vendor agreements and manages the tender process. May also be responsible for stores and inventory control in the warehouse. Supervises and directs the work of the purchasing or buyers and stores personnel.

#### **Stores or Inventory Control Supervisor**

Supervises inventory control, records and stores operation. Orders material to maintain onhand quantities with purchasing manager/buyer approval. Responsible for testing safety equipment, i.e., hoses, blankets, gloves, etc., small tool and equipment repair and reconditioning. Assists purchasing department in the sale of obsolete equipment and material.

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

67 of 71

#### **Executive Assistant to President**

Performs advanced, diversified and confidential administrative duties requiring broad knowledge of organizational policies and practices. Initiates and prepares correspondence, reports, either routine or non-routine. Screens telephone calls and visitors and resolves routine and complex inquiries. Schedules appointments, meetings and travel itineraries. In some cases, may have responsibility for routine HR and administrative services. Records, prepares and distributes minutes of meetings, including Board of Director minutes. Reports to the President/CEO/General Manager and may provide support to other executives.

#### **Administrative Assistant**

Performs advanced, diversified and confidential administrative duties for executives and/ or senior management, requiring broad and comprehensive experience and knowledge of organizational policies and practices. Prepares correspondence, reports, either routine or non-routine. Screens telephone calls and visitors and resolves routine and complex inquiries. Schedules appointments, meetings and travel itineraries. This is a non-union position and reports to a senior executive or executive team.

#### **Director or VP Finance or CFO**

Highest ranking financially-oriented position within the company. Reporting to the President/CEO, this strategic role plans directs and controls the organization's overall financial plans, policies and accounting practices and relationships with lending institutions, shareholders and the financial community in mid to large organizations. Provides advice and guidance for the Board of Directors on financial matters. May direct such functions as finance, general accounting, tax, payroll, customer billing, regulatory affairs, and information systems and may be responsible for Administration functions. Normally possesses a CA, CMA or CGA designation.

#### **Controller or Manager, Finance**

Responsible for all financial reporting and record keeping functions. Directs the establishment and maintenance of the organization's accounting and finance principles, practices and procedures for the maintenance of its fiscal records and the preparation of its financial reports. Directs general and property accounting, cost accounting and budgetary control. Appraises operating results in terms of costs, budgets, operating policies, trends and increased profit opportunities. May be the most senior financial position in a small to mid-size corporation or reporting to a Director/VP Finance in a mid to large corporation.

#### **General Accounting Manager**

Manages the general accounting functions and the preparation of reports and statistics reflecting earnings, profits, cash balances and other financial results. Formulates and administers approved accounting practices throughout the organization to ensure that financial and operating reports accurately reflect the condition of the business and provide reliable information. Generally reports to the Controller or CFO.

#### Accounting (A/R, A/P) Supervisor

Coordinates activities of the payable/receivable clerks. Supervises accounts payable and receivable transactions, entries and trial balances; responsible for the accuracy of all journal entries and reconciliation of invoices; updates credit department on account status.

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

68 of 71

#### **Director or VP Customer Service**

The highest ranking customer service position in the utility. Provides direction for all departmental activities, services and practices, including customer care/call centre, billing, credit and collections. Accountable for the development, implementation and integration of all customer service related activities to achieve a competitive advantage through customer driven initiatives and strategies. Directs and oversees the implementation of customer service standards, policies and procedures; manages and coordinates budgets; manages activities of CS managers and/or supervisory staff for mid to large size organizations.

#### **Manager Customer Service**

Manages a team of customer service representatives in providing information, receiving and responding to customer inquiries, complaint or requests. Develops and maintains customer information systems, processes and procedures including billing, credit, deposits and collections. Liaises with representatives of other organizations and customer groups to share information and resolve administrative, organizational and technical problems. Responds to elevated customer complaints. This function may also be responsible for coordinating meter installation/maintenance, residential electric service connections, and service calls in a medium size organization.

#### **Customer Service Supervisor**

Supervises customer service representatives and coordinates customer service programs within the framework of established customer service policies. Schedules and organizes staff to accommodate anticipated work-flow from bill inquiries, delinquent accounts, reconnections and disconnections, customer deposits, etc. Recommends corrective steps to address customer issues and refers unique issues to manager for response.

#### **Billing Supervisor**

This position is responsible for overseeing and management of staff, processes and systems to collect and validate meter reading data, calculate and issue customer invoices and conduct settlement activities in the wholesale and retail markets. The incumbent also monitors compliance with regulation(s) and company policies for billing processes.

#### **Financial or Business Analyst**

Conducts analysis of information for budgeting, investment and financial forecasts; applies principles of accounting to analyze past and present financial operations; estimates future revenues and expenditures; prepares budgets; develops and maintains budgeting systems; Process and prepares business transactions and reports, reconciles ledgers and sub-ledgers, cash flow projections, entry of source documents.

#### **Director or V.P., Regulatory Affairs**

Represents the organization on quality and regulatory matters before government agencies and conformity assessment bodies including providing of evidence, regulatory filings, supporting analyses, position papers, interrogatory responses, etc. Keeps abreast of ongoing developments in regulatory practices affecting electrical distribution utilities. Ensures that regulatory information is disseminated throughout the organization in a timely and effective manner. Is responsible for the filing of written communications and regulatory submissions to government agencies (OEB) and conformity assessment bodies (IMO). Generally reports to President or Sr. Executive in large organization.

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

69 of 71

#### **Manager, Regulatory Affairs**

Manages the organization's regulatory programs and activities to ensure compliance. Assists the President on quality and regulatory matters before government agencies, providing research and analyses. Ensures that regulatory information is disseminated throughout the organization in a timely and effective manner. Co-ordinates the filing of written communications and regulatory submissions to government agencies (OEB) and conformity assessment bodies (IMO). Generally reports to the President in a small to mid-size organization.

#### **Settlement or Rate Analyst**

Responsible for recording, creating, analyzing, processing and reconciling metering data. Operates and administers an MV-90 or similar data collection system, downloading, validating, editing, estimating and processing interval meter-related information. Has indepth understanding of commercial billing practices, the IMO and the OEB's Retail Settlement Code. Analyses rates using rate sensitivity models and develops appropriate rate structures, using the specific models. Participates in the development of policies.

#### **Conservation and Demand Management Officer**

This position is responsible for planning, coordinating, evaluating and delivering energy and water conservation and demand management programs. Develops plans for programs in accordance with the OEB's conservation and demand management code to ensure achievement of OEB mandated energy consumption and demand conservation targets.

#### <u>Information Systems Director or V.P.</u>

Accountable for operations and alignment of the Information and Telecommunication Systems with the business in terms of mission, vision and the strategic imperatives. Ensures that existing needs and future demands of internal and external customers are met through a cost effective and efficient information and telecommunication infrastructure. Oversees IS management in areas of computer operations, systems planning, design, programming and telecommunications. Reviews and evaluates project feasibility and needs based upon management's and business requirements and priorities. Develops departmental plans, strategy, budgets and resource requirements. Typically reports to President or CFO in a mid to large size organization.

#### **Information Systems Manager**

Manages and directs staff in areas of computer operations, systems planning, design, programming and telecommunications. Develops and maintains systems standards and procedures and assigns work to department staff. Reviews and evaluates project feasibility and needs based upon management's and business requirements and priorities. Develops departmental plans, project plans, budgets and resource requirements. Typically reports to Director of Finance in a small to mid-sized organization.

#### **Information Systems Supervisor or Computer Operations Supervisor**

Supervises employees who monitor and control computer equipment and data processing. Schedules all production runs including processing of bills, updating inventory system, meter record and all other data processing applications. Maintains hardware and troubleshoots when necessary. May report to a Director/VP, Information Systems.

Responses to Interrogatories from SEC 1 - SEC - 2 - Attachment 5

70 of 71

#### Systems Administrator or Applications/Systems Support Professional

Responsible for maintenance of software systems including system analysis, programming and design, updates and changes. Makes preliminary study of new applications and recommendations to implement them, including hardware and software. Troubleshoots and corrects problems in existing programs, other than normal problems, usually caused by changes of software or hardware. Typically reports to the Manager, IS in a large utility or Director or V.P. Information Systems or V.P Finance in a smaller utility.

#### **Human Resources Director or VP**

Provides support and alignment of organization-wide Human Resources practices and systems with the business in terms of mission, vision and the strategic imperatives. Ensures that existing needs and future demands of internal customers are met through a cost effective and efficient HR services. Directs HR management and staff in the development and implementation of Human Resources strategy, policies and programs covering employment, negotiations & labour relations, training, compensation, organization development, performance management, benefits and may include health & safety. Provides coaching and counsel to the executive and Board of Directors. Generally reports to the President of a mid to large size organization.

#### **Human Resources Manager**

Develops and implements human resources programs, including compensation, benefits, recruitment, performance management, labour relations/negotiations, training and development, assists in policy development, HR planning, record keeping or payroll etc. May supervise a team of HR professionals or support staff. May be the most senior HR professional in a small to mid-size organization or report to the top HR professional in a large organization.

#### **Human Resources Generalist or Officer**

Assists in the development and implementation of human resources policies and programs by providing support and guidance to managers and employees in the areas of compensation, labour relations, employee relations, performance management, benefits, recruitment, training and HRIS systems. May assist in the preparation of negotiations. Reports to HR Manager or Senior Executive.

#### **Human Resources Coordinator**

Not an administrative assistant role, but rather with the focus on administrative support to one or more functional areas of HR. Processes, coordinates and enters into a HRIS or other system, a variety of documents including employment applications, benefits, compensation and payroll changes and confidential employee information. Responds to routine employment questions and distributes and maintains manuals and employee program communications. Reports to HR Manager/Director/V.P.

#### Manager, Health & Safety or Loss Control

Accountable for the development and implementation of occupational health, safety and environmental programs, including training, maintenance of safe working conditions, investigation and reporting of workplace accidents. Also identifies areas of potential risk and makes recommendations to reduce or eliminate potential accident or health hazards in compliance with government regulations.

esponses to interrogatories from SEC 1 - SEC - 2 - Attachment 5 71 of 71

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EB-2019-0032

Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 3

Page **1** of **1** 

1 - SEC - 3

Reference:

Exhibit 1

**Question:** 

Please provide a step-by-step explanation of the Applicant's budgeting process.

#### Response:

The description of the budgeting process has been provided in section 4.1.3 of Exhibit 4 beginning on page 11.



EB-2019-0032

Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 4

Page **1** of **1** 

## 1 - SEC - 4

## Reference:

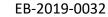
Exhibit 1

## **Question:**

Please provide details of all productivity and efficiency measures the Applicant has taken since its last rebasing application in 2009.

## Response:

Please refer to the response to SEC – 34.





Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 5

Page **1** of **1** 

1 - SEC - 5

Reference:

Exhibit 1

**Question:** 

Please provide details of all productivity and efficiency measures the Applicant plans to take in the test year. Please quantify the forecast savings.

#### Response:

Productivity is embedded throughout the operations at ENWIN. ENWIN's planning and budgeting process assumes productivity will be achieved by using the IRM rate increases as a guide to establish the overall operating and capital activities of the organization.

Exhibit 2, Attachment 2-A Distribution System Plan, Section 5.2.1 (c), Sources of Cost Savings Expected, identifies and discusses specific projects and activities related to productivity measures, which ENWIN has undertaken or is planning to implement to achieve cost saving and improve efficiencies.



EB-2019-0032

Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 6

Page **1** of **1** 

1 - SEC - 6

Reference:

Exhibit 1

Question:

Please provide a copy of the Applicant's 2009 to 2019 corporate scorecards.

#### Response:

ENWIN has recently started using a corporate scorecard approach to track key measurables and drive continuous improvement. Beginning in fiscal 2016, ENWIN tracked and reported to its Board of Directors on 14 key performance indicators. The 2018 Corporate Scorecard is attached as Attachment 1, which includes results from 2016 and 2017. In Attachment 2, ENWIN included its 2019 Corporate Scorecard with YTD results as of May 2019.

SEC 6 - Attachment 1: Corporate Scorecard 2016, 2017 and 2018.

SEC 6 - Attachment 2: Corporate Scorecard YTD 2019.

Responses to Interrogatories from SEC

#### 1 - SEC - 6 - Attachment 1 1 of 1

## **Corporate Metrics 2018 Final Results**

Strategic	Performance Metric					
Framework	T CHOMBINE MESIC	2016 Actual	2017 Actual	2018 Target	2018 Actual	Achieved
Customer Focus	First Call Resolution Improvement over four year average 2015-98.17%, 2016-97.93%, 2017-98.04%, 2018 - 98.63% <sup>1</sup>	97.93%	98.04%	98.02%	98.63%	Yes
	Water Customer Satisfaction ratings maintained, Complaints per 1,000 Customers <sup>2</sup>	2.07	2.87	2.47	4.22	No
People & Culture	Health and Safety lost days (corporate wide-hydro and water) not in excess of prior 5 year rolling average	8	5	=<35	3	Yes
Quality & Innovation	Percentage of outages affecting more than 1000 customers for more than 5 minutes	3.6%	1.4%	<5.0%	2.6%	Yes
	Calls answered on time % <sup>3</sup>	70.7%	78.2%	70%	76.9%	Yes
Organizational Sustainability	Financial Statement targets achieved or exceeded annually	<b>#7.000</b>	<b>\$7.040</b>	<b>#0.000</b>	<b>*</b> 40.054	V **
	EWU Net Income- MIFRS '000	\$7,999	\$7,240	\$9,938	\$ 12,954	Yes **
	EWE Net Income - IFRS '000	\$335	\$294	\$111	\$ 245	Yes
	WUC Net Income - IFRS '000	\$16,177	\$14,735	\$14,431	\$ 16,410	Yes
	Capital Expenditures not > than budget or below 20% of total budget					
	EWU- Capital - Hydro \$ '000's	\$14,939	\$14,061	\$19,499	\$ 16,533	Yes ***
	Actual % ofTotal				85%	
	WUC - Capital - Water '000	\$23,096	\$29,509	\$28,507	\$ 25,094	Yes
	Actual % ofTotal				88%	
	Current Ratio WCU	1.99	2.19	2.0	2.37	Yes
	Current Ratio WUC	0.98	1.42	1.3	1.94	Yes
	Inventory Level at end of year (EWU)	\$ 5,195	\$ 4,097	\$ 3,900	\$ 3,749	Yes
Community & Partnership	CDM 5 year approved plan target achieved <sup>4</sup>		odology in or 2018	44,125 MWh	94,268 MWh	Yes

#### Notes

- 3 Calls answered on time is an OEB scorecard target. OEB target is 65%. ENWIN target is 70%
- 4 Target is based on most recently approved CDM plan (approved by the IESO). Eg. 2018 target based on most recent plan as of approval date of fall 2017; Target has been refined to represent signed contracts as of December 31, 2018 ie. "work in the pipeline" since IESO does not confirm outcome until July of year following. Targets established to 2020 only by IESO. Note: if 103% of plan achieved, ENWIN is eligible for IESO incentive payment, but targets are based on expectation of 151,303 MWh in 2020, which is considered a stretch goal.

<sup>&</sup>lt;sup>1</sup> OEB scorecard measure - 2018 target based on average of recent 4 year results 2014-2017.

<sup>&</sup>lt;sup>2</sup> Water Customer Satisfaction is a measure of number of Water Quality complaints. Target is based on most recent 2 year average.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 6 - Attachment 2 1 of 1

Target not Met

#### **Hydro and Water Corporate Metrics**

o	D ( 14.1)									
Strategic Framework	Performance Metric	2016 Actual	2017 Actual	2018 Actual	2019 Target	JAN 2019 YTD	FEB 2019 YTD	MAR 2019 YTD	APR 2019 YTD	MAY 2019 YTD
Customer Focus	First Call Resolution Improvement over four year average 2015-98.17%, 2016-97.93%, 2017-98.04%, 2018 - 98.63% <sup>1</sup>	97.93%	98.04%	98.63%	98.19%	98.75%	98.46%	98.48%	98.58%	98.57%
	First Call Resolution - Monthly					98.75%	98.13%	98.50%	98.90%	98.51%
	Water Customer Satisfaction ratings maintained, Complaints per 1,000 Customers <sup>2</sup>	2.07	2.87	4.22	3.55	3.16	3.35	3.59	3.66	3.59
People & Culture	Health and Safety lost days (corporate wide-hydro and water) not in excess of prior 5 year rolling average) 7	8	5	3	22	0	16	33	33	33
Quality & Innovation	Percentage of outages affecting more than 1000 customers for more than 5 minutes <sup>3</sup>	3.6%	1.4%	2.6%	3.0%	0.0%	2.4%	1.4%	2.0%	2.4%
	Calls answered on time % 4 YTD	70.7%	78.2%	76.9%	75.3%	87.3%	84.5%	86.5%	86.1%	85.5%
	Calls answered on time-target 70% or better - Monthly					87.3%	81.4%	90.3%	84.6%	83.7%
Organizational Sustainability	Financial Statement targets achieved or exceeded annually						<b>.</b>	<b>44</b>	*0.450	40.040
	EWU Net Income- MIFRS '000	,,,,,,,		\$ 12,954		\$ 534	\$ 1,379	\$1,707	\$2,453	\$3,346
	EWE Net Income - IFRS '000	\$335	\$294	\$ 245	\$ 214	\$ (17)	\$ 14	\$ 35	\$ 56	\$ 86
	WUC Net Income - IFRS '000	\$16,177	\$14,735	\$ 16,410	\$ 15,165	\$ 1,141	\$ 1,668	\$3,226	\$4,735	\$5,815
	Capital Expenditures not > than budget or below 20% of total budget  EWU- Capital - Hydro \$ '000's	¢14 020	\$14,061	\$ 16,533	\$ 21,386	\$ 1,164	\$ 1,018	\$2.092	\$3.427	\$4.788
	EVVO- Capital - Hydro \$ 000 S Actual % ofTotal	\$14,939	\$14,061	\$ 10,533	\$ 21,380	5%	5%	10%	\$3,42 <i>1</i> 16%	22%
	WUC - Capital - Water '000	\$23,006	\$29,509	\$ 25,094	\$ 27,871	\$ 663	\$ 1,247	\$2,430	\$5,069	\$7,285
	Actual % ofTotal	Ψ20,000	Ψ23,303	Ψ 20,034	Ψ 21,011	2%	4%	9%	18%	26%
	Current Ratio WCU	1.99	2.19	2.37	1.95	2.22	2.30	2.39		2.75
	Current Ratio 5 WUC	0.98	1.42			1.70	1.84	1.95		1.70
	Inventory Level at end of year (EWU)	\$ 5,195	\$ 4,097		\$ 3,700		\$ 3,900	\$ 4,238		\$ 5,857
Community & Partnership	ONTech Net Income/(Loss) or better <sup>6</sup>		, , , , , ,						\$ (5,550)	, ,
Mataa										

#### Notes

<sup>&</sup>lt;sup>1</sup> OEB scorecard measure - 2019 target based on average of recent 4 years results

<sup>&</sup>lt;sup>2</sup> Water Customer Satisfaction is a measure of number of Water Quality complaints. Target is based on recent 2 year average

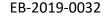
<sup>&</sup>lt;sup>3</sup> Percentage of outages historically at less than 5%. Proposed target for 2019 is 3% to appropriately incent noting that the median of the prior 3 years is 2.6%.

<sup>&</sup>lt;sup>4</sup> Calls answered on time represents quality per OEB scorecard. OEB target is 65%. ENWIN target is amended/ increased to further challenge management and is based on most

<sup>&</sup>lt;sup>5</sup> Current ratio amended from original budget proposal to now net the residual investment funds from reservoir project- a more challenging target to achieve.

<sup>6</sup> ONTech budgeted loss for year 1 and 2 - \$98,500 less amount incurred in 2018 -\$25,997 = target loss not greater than \$72,503

<sup>&</sup>lt;sup>7</sup> Lost days to exclude injury illness time related to prior years' workplace injuries





Filed: August 1, 2019

Responses to Interrogatories from SEC

1 - SEC - 7

Page **1** of **1** 

#### 1 - SEC - 7

#### Reference:

Exhibit 1

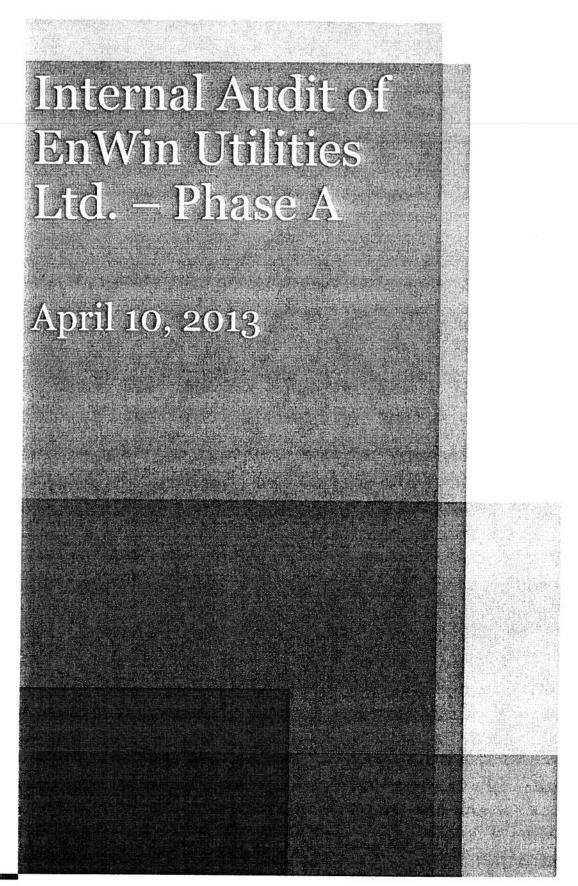
#### Question:

SEC understands that since its last rebasing application Windsor city council has ordered a number of audits to be conducted of the Applicant. Please provide a copy of those audits, as well as an update on the implementation of any findings contained within.

#### Response:

Please find attached copies of the audit reports referenced below. The reports contain either management response and/or management action plans.

- SEC 7 Attachment 1 Copy of a report to the City of Windsor's Chief Administrative Officer titled "Internal Audit of ENWIN Utilities Ltd. Phase A, dated April 10, 2013.
- SEC 7 Attachment 2 Copy of a report to ENWIN Utilities Ltd.'s Chief Financial Officer titled "Internal Audit of ENWIN Utilities Ltd. Procurement Process, dated May 6, 2014.
- SEC 7 Attachment 3 Copy of a report to ENWIN Utilities Ltd.'s Board of Directors titled "PWC Internal Audit Report", dated July 26, 2016.





EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1 2 of 20



April 10, 2013

Ms. Helga Reidel Chief Administrative Officer (CAO) The Corporation of the City of Windsor 350 City Hall Square West Windsor, Ontario N9A 6S1

Dear Ms. Reidel:

Please find attached our Internal Audit Report on EnWin Utilities Ltd.- Phase A.

In this phase we examined four specific matters: dividend payments; credit card usage for executives; executive and board compensation and board and committee attendance.

We would be pleased to answer any questions you have.

Yours truly,

Price waterhouse Coopers LLP

PricewaterhouseCoopers LLP

Encl.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1 3 of 20

# **Contents**

Executive	summary
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1.	Dividend Payments	4
2.	Credit Card Usage for Executives	8
3.	Executive and Board Compensation	10
4.	Board and Committee Attendance	12
5.	Detailed Observations	14
	1. Dividend strategy is consistent with benchmark data	
	2. Executive incentive pay requires a more formalized measurement and approval system	
	3. Executive and board compensation consistent with benchmark data	
	4. Roadmap needs to be developed for following TSX Corporate Governance Guidelines	

# Executive summary

## **Overview and Approach**

Our work was performed in accordance with the International Standards for the Professional Practice of Internal Auditing and the Canadian Institute of Chartered Accountants (CICA). The CICA provides guidance on conducting value for money and compliance audits. Value for money (VFM) focuses on whether money was spent with due regard for economy and efficiency and whether appropriate procedures were in place to measure and report on effectiveness of service delivery.

Conducting value for money audits are useful exercises as part of a "continuous improvement" strategy for any corporation. Throughout government and also in the private sector, a focus on economy, efficiency and effectiveness serves to continuously improve an organization.

We completed our review of four (4) items identified by City Council:

- Dividend Payments
- Credit Card Usage for Executives
- Executive and Board Compensation
- Board and Committee Attendance

For each item, we set out an audit objective and developed audit criteria that cover key systems, policies, and procedures that should be in place and operating effectively. Our testing period was 2007 to 2012 years as that aligns with the period those financial records need to be retained for statutory purposes (total 6 years, current year plus prior 5 years).

At the outset, EnWin's senior management agreed to the objectives and criteria which were previously proposed by PwC in consultation with City management. Tests and procedures were carried out to address our audit objective and criteria.

### **Summary Conclusions:**

## **Dividend Payments:**

The EnWin dividend policy and payment amount is consistent with what other Local Distribution Companies (LDCs) are paying in Ontario and a process exists to regularly review its effectiveness. The policy is also consistent with the company strategy and the shareholder declaration.

EnWin has been able to establish a policy that balances the competing interests of shareholders and ratepayers in making dividend decisions. The need for balance was established by the regulator, the Ontario Energy Board (OEB) in a 2010 legal decision with another local distribution company. The regulator has a right to intervene when it determines a dividend is too high. In this way, the regulator achieves its dual objective of: (i) protecting the interests of

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1 5 of 20

consumers with respect to prices and the adequacy, reliability and quality of electricity services; and (ii) facilitating the maintenance of a financially viable electricity industry.

This balance is necessary to ensure that an LDC does not take excessive cash out of the business through high dividends rather than spending that money on the capital expenditures needed to maintain its infrastructure.

Whether an LDC does or does not pay a dividend to its shareholder (in this case, the City) has no impact on the amount of the ratepayer's hydro bill. When a dividend is not paid it simply means more cash would be available for the utility and less cash for the City to use on municipal programs. Dividend payments do not make up part of the calculation of hydro rates, as electricity rates are the same regardless of the payment of a dividend.

Dividends are the only manner that a shareholder receives a return on its investment (other than a sale of the utility). Virtually all LDCs make payments to their municipal shareholders. EnWin Utilities Ltd.'s 2011 \$3.75 million dividend to Windsor Canada represents a 3.5% yield, on an asset book value of \$108 million (per 2011 financial statements). In turn Windsor Canada Utilities paid a \$5 million dividend to The Corporation of the City of Windsor. A yield of 3.5% is consistent with what other utilities are yielding. By way of comparison, a utility close in size to EnWin (Burlington Hydro) with a book value of \$63.7 million paid a \$2.55 million dividend in 2011, which equates to a 4.0% yield. It should also be noted that Hydro One made a dividend payment of \$168 million in 2011 to the Province of Ontario. The only LDC identified that does not pay a dividend is Thunder Bay Hydro. Thunder Bay Hydro does have a Return on Equity built into its hydro rates (est. 7% for 2013), it is profitable and it does make payments in lieu of taxes (PILs), but it keeps all the remaining cash in the LDC rather than paying part of it to the City of Thunder Bay as a dividend.

EnWin should continue to monitor the market place comparables to ensure that the appropriate balance continues to be achieved between the ratepayer and the financial viability of the utility.

## **Credit Card Usage for Executives:**

There is currently no credit card usage for executives. The use of credit cards was stopped in 2007. We did review those few transactions from 2007 and found no issues. Board members have never been issued a credit card.

When EnWin stopped using credit cards for its executives it moved to an "expense reimbursement" process, consistent with the policy in place for Board members. Each individual submits an expense report with the appropriate support and they are re-imbursed. We have recommended that expense reports since 2007 are reviewed as part of Phase B of our audit.

## **Executive and Board Compensation:**

Executive and board compensation is consistent with external benchmarks and the company regularly reviews the marketplace to ensure that compensation is fair and reasonable. This is done for both employees and those who serve on boards and committees. EnWin should continue to periodically survey the marketplace to ensure that executive and board

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1

compensation continues to be at the right level. Generally, compensation is paid at the lower end of the range for comparable companies.

However we found three instances where EnWin can improve the governance framework over compensation:

- EnWin, has an incentive pay strategy for its executive. Incentive pay for executives is paid less than what the strategy has stipulated. The Board has deviated from the strategy by arbitrarily reducing the incentive payments that would have otherwise resulted in higher compensation for executives as contemplated by their strategy. The process starts with examining general corporate results but the calculated payments have been arbitrarily reduced by the Board or a committee thereof. Incentive payments for executives should be determined based on clear and transparent metrics that are established at the **start** of the year and approved by the Board of Directors or a committee thereof without the arbitrary reductions in compensation at the end of the process. There should be no arbitrary deviations from the compensation methodology.
- Approvals for incentive pay should be formalized with clear supporting documentation
  that indicates the quantum of incentive pay being awarded as it relates to corporate and
  individual performance. This could be accomplished by utilizing a standard template
  that highlights the key metrics that were set at the start of the year and the results
  achieved against those metrics.
- The shareholder declaration states that the company desires to follow the TSX corporate governance guidelines. Adopting the TSX corporate governance guidelines is an excellent initiative for a corporation under the Ontario Business Corporations Act, with public debt holders, and operating in a regulated monopoly business. It appears that EnWin's compensation governance does not align with these guidelines and we recommend that EnWin develop a governance framework for compensation that includes a "road map" to become fully compliant with these guidelines. Doing so will assist EnWin in attracting good people for key roles in a competitive industry marketplace.

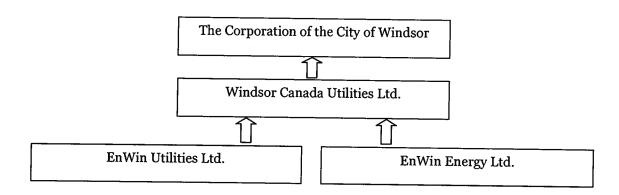
#### **Board and Committee Attendance:**

Board and committee compensation is paid consistent with external benchmarks. Payments are accurate based on meetings attended and attendance records are up to date.

# 1. Dividend Payments

## **Background:**

Since 2005 EnWin Utilities and/or EnWin Energy have been paying dividends to its parent company Windsor Canada Utilities who in turn have been paying dividends to their shareholder, The Corporation of the City of Windsor.



The differential between Windsor Canada Utilities dividends to the City of \$23.678 million and EnWin Utilities dividends to Windsor Canada Utilities of \$20.678 million are dividend and similar returns paid by EnWin Energy to Windsor Canada Utilities of \$3 million. It total, the City has received dividends of \$23.678 million since 2005 from the EnWin Group of Companies.

#### WINDSOR CANADA UTILITIES LTD. DIVIDEND HISTORY

(000's)	2011	2010	2009	2008	2007	2006	2005	TOTAL TO CITY
Dividends – Declared	\$5,000	\$3,000	\$5,000	\$4,000	\$3,000	\$2,000	\$1,678	\$23,678
ENWIN UTILITIE DIVIDEND HISTO								

(000's)	2011	2010	2009	2008	2007	2006	2005	TOTAL TO WCU (above)
Dividends – Declared	\$3,750	\$2,250	\$4,000	\$4,000	\$3,000	\$2,000	\$1,678	\$20,678

There has been some public debate on the need for EnWin to pay a dividend. It is our understanding that dividends were not paid prior to 2005 because the corporation was not in a financial position to pay a dividend. Through our research we determined that most LDCs in Ontario pay a dividend. We are only aware of one utility (Thunder Bay Hydro) that has chosen not to pay a dividend as a matter of policy. A few examples of other utilities that pay a dividend, are Hydro One Brampton at \$10.4 million; London Hydro at \$2.5 million, Veridian at \$4.9 million. On the low end, some smaller utilities, even small LDCs like Woodstock Hydro paid a

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1

dividend of \$0.115 million. (All amounts are 2011 data). One can see that there is variability, but at \$3.75 million, EnWin is within the range of other utilities.

LDCs are incorporated, as is required under Section 142 of the Electricity Act. Under the Ontario Business Corporations Act (OBCA) corporations have the right to declare a dividend to the shareholders, on the authority of the Board of Directors. The board members, who are appointed by the shareholders and are tasked to act in the best interest of the company, provide the control through governance to ensure that the right amount of dividend is declared.

For the electricity sector, an added oversight control exists, over and beyond that of the Board of Directors. This additional oversight is provided by the regulator, the Ontario Energy Board.

The OEB has the provincial statutory mandate to regulate this industry in which LDCs operate as monopolies. The OEB is required to **balance** the competing interests of the utility shareholders against the interests of the ratepayers. The OEB is mandated to "protect the interest of consumers with respect to prices and the adequacy, reliability and quality of electricity services". The principal way the OEB achieves this is by setting "just and reasonable rates".

Section 1 of the Ontario Energy Board Act, 1998 states the Board objectives include:

- (1) To protect the interests of consumers with respect to prices and the adequacy, reliability and quality of electricity services; and
- (2) To promote economic efficiency and cost effectiveness in the generation, transmission, distribution, sale and demand management of electricity and to facilitate the maintenance of a financially viable electricity industry.

The key concept is **balance**. To balance the interests of ratepayers in terms of prices and service while at the same time ensuring a financially viable electricity industry that is both economically efficient and cost effective.

In the 2010 Ontario Court of Appeal decision involving Toronto Hydro Electric System Limited and Ontario Energy Board it was established that the OEB has the right to intervene when it determines that a dividend is too high. Briefly, the case facts here center on the fact that during 2004-2005 Toronto Hydro Corporation paid over \$116 million to the City in the form of dividends and interest payments.

This case established the principles that govern regulated utilities which operate as monopolies, from those that apply to private sector companies, which operate in a competitive environment. This distinction is critical as:

- (1) Directors and officers in a business corporation have a fiduciary obligation to act in the best interests of the company; but
- (2) In a business corporation that is a regulated utility, the best interests of the company have an additional requirement: **balancing** the interests of the utility's shareholders with the interests of the ratepayers.

EB-2019-0032
Filed: August 1, 2019
Responses to Interrogatories from SEC
1 - SEC - 7 - Attachment 1

If a utility fails to operate in this way, this case confirmed the legal authority of the OEB to intervene in order to strike this **balance** and protect the interests of the ratepayers.

The key question for EnWin is whether the level of dividend being paid to the City strikes the **balance** of competing interests (shareholder and ratepayers).

Our audit sought to discover whether policies and procedures exist at EnWin to ensure this **balance** is achieved.

## **Audit Objective and Scope:**

Objective:

The objective is to assess whether EnWin has adequate policies and procedures in place so that:

- Reasonable oversight is provided over the dividend payments such that they are competitive and fair;
- The EnWin policy is reasonable when compared to other utilities;
- Actual payments made are aligned with the policy

#### Scope:

- Reviewed relevant legislation, OEB cases and the history of dividend payments in Ontario.
- Compared EnWin dividend payment history to other utilities, in particular Thunder Bay who do not pay a dividend.
- Reviewed policies and procedures and conducted interviews including persons outside of EnWin.
- Reviewed Shareholder Declaration and the history of dividends since 1999.

#### Criteria:

Our criteria, which management agreed to are:

- (1) Dividend payment policy is consistent with what other LDCs are paying in Ontario;
- (2) A process exists to regularly review the effectiveness of the dividend policy;
- (3) Dividend payment is consistent with the City of Windsor and EnWin business strategy; and
- (4) Dividend policy is consistent with the Shareholder Declaration.

## **Summary Conclusions:**

The EnWin dividend policy is consistent with what other LDCs are paying in Ontario and a process exists to regularly review its effectiveness. The policy is also consistent with the company strategy and the Shareholder Declaration. EnWin has followed the policy, company strategy and Shareholder Declaration in paying dividends to its shareholder, the City.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1 10 of 20

As discussed earlier, utilities need to be mindful of the <u>balance</u> between the competing interests of shareholders and ratepayers in making dividend decisions. While the payout rate of a dividend is always prone to debate, it would appear that EnWin's various stakeholder interests are being considered and balanced, especially when one considers the consistency of the dividend amount over the last number of years, the reinvestment of \$106 million through capital expenditures from 2005-2011, and the reduction of total debt by \$46 million since 2005. EnWin has paid dividends when it has positive net income, which is consistent with commercially reasonable business practices. A positive net income and the ability to pay dividends are two indicators of good financial management.

# 2. Credit Card Usage for Executives

#### **Background:**

The policy regarding the use of corporate credit cards for executives changed effective April 2007 to an expense report-based system. Executives are reimbursed for business expenses incurred by submitting a standard template claim form that has been developed for this purpose.

We understand that EnWin instituted this change to mitigate the risk that a corporate credit card might accidentally be used for a personal expenditure.

For our review there were limited credit card transactions to review, with the most recent activity being from early 2007.

#### **Audit Objective and Scope:**

#### Objective:

The objective is to assess whether EnWin has adequate policies and procedures for credit card usage so that:

- Reasonable oversight is provided to ensure that credit card usage amounts are competitive and fair;
- The EnWin policy is reasonable when compared to other like entities
- Actual payments made are aligned with this policy;

#### Scope:

- Policies and procedures
- Management interviews
- EnWin Credit Card Policy
- No usage recently but in past did have credit cards (prior to Jan. 2007)
- Review data for last 6 years (statutory limit for retaining records)

#### Criteria:

Our criteria, which management agreed to are:

- (1) Payments comply with corporate policy;
- (2) Oversight governance is in place;
- (3) Payments are accurate and complete; and
- (4) Payments are made on a commercially prudent basis (no personal expenses).

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1 12 of 20

#### **Summary Conclusion:**

The use of credit cards was discontinued in 2007. For the limited transactions we reviewed from early 2007 we found that there was reasonable oversight, the policy was reasonable, and payments made were accurate and complete and made on a commercially prudent basis.

The expense re-imbursement policy since 2007 allows for payments based on submission of an expense claim. We have recommended that the expense re-imbursement policy be reviewed as part of our work in Phase B.

# 3. Executive and Board Compensation

#### **Background:**

EnWin participates in various compensation surveys with other LDCs to regularly review compensation levels. The Board of Directors and its committees evaluate whether current compensation is consistent with other similar entities. The objective is to ensure that the compensation is within the ranges provided in the survey results.

#### **Audit Objective and Scope:**

#### Objective:

The objective is to assess whether EnWin has adequate policies and procedures for executive and board compensation so that:

- Reasonable oversight is provided to ensure that executive and board compensation levels are competitive and fair;
- The EnWin policy is reasonable when compared to other similar entities; and
- Actual payments made are aligned with the policy

#### Scope:

- External compensation benchmarks from other utilities in Ontario;
- Internal governance processes;
- · Governance processes that exist at other LDCs in Ontario; and
- Compensated departures over the last 6 years.

## Criteria:

Our criteria, which management agreed to are:

- (1) Compensation paid is consistent with external benchmarks;
- (2) Oversight governance over compensation exists;
- (3) Regular process exists to measure and report on executive compensation; and
- (4) Compensated departures are handled in accordance with employment contract.

## **Summary Conclusion:**

Executive and board compensation is consistent with external benchmarks and the company regularly reviews the marketplace to ensure that compensation is fair and reasonable. This is done for both executives and those who serve on boards and committees. EnWin should continue to periodically survey the marketplace to ensure that executive and board compensation continues to be at the right level.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1

However, there are three areas where the company can improve the governance framework over executive compensation:

- EnWin, has an incentive pay strategy for its executive. Incentive pay for executives is paid less than what the strategy has stipulated. The Board has deviated from the strategy by arbitrarily reducing the incentive payments that would have otherwise resulted in higher compensation for executives. The process starts with examining general corporate results but the calculated payments have been arbitrarily reduced by the Board or a committee thereof. Incentive payments for executives should be determined based on clear and transparent metrics that are established at the **start** of the year and approved by the Board of Directors or a committee thereof without the arbitrary reductions in compensation at the end of the process. There should be no arbitrary deviations from the compensation methodology.
- Approvals for incentive pay should be formalized with clear supporting documentation
  that indicates the quantum of incentive pay being awarded as it relates to corporate and
  individual performance. This could be accomplished by utilizing a standard template
  that highlights the key metrics that were set at the start of the year and the results
  achieved against those metrics.
- The shareholder declaration states that the company desires to follow the TSX corporate governance guidelines. Adopting the TSX corporate governance guidelines is an excellent initiative for a corporation under the Ontario Business Corporations Act, with public debt holders, and operating in a regulated monopoly business. It appears that EnWin's compensation governance does not align with these guidelines and we recommend that EnWin develop a governance framework for compensation that includes a "road map" to become fully compliant with these guidelines. Doing so will assist EnWin in attracting good people for key roles in a competitive industry marketplace.

# 4. Board and Committee Attendance

#### **Background:**

Windsor Canada Utilities, EnWin Utilities and EnWin Energy each maintain a Board of Directors to provide appropriate corporate governance oversight to each of the entities. Windsor Canada Utilities and EnWin Utilities also have formed subcommittees to achieve more specific mandates and report to the Board.

It is normal practice for each entity to compensate members of the Board and Subcommittees in the form of an annual retainer and a fee per meeting attended. The rationale is that these fees will attract appropriate candidates with the necessary qualifications and compensate them for their time, risk and responsibility assumed when carrying out their role.

Compensation is informally monitored by participation in LDC studies from time to time, but is not required by the Shareholder Declaration.

Board meeting minutes are taken and filed with legal counsel. Attendance is reported to the HR department for calculation of compensation.

#### **Audit Objective and Scope:**

#### Objective:

The objective is to assess whether EnWin has adequate policies and procedures for board attendance so that:

- Reasonable oversight is provided to ensure that board and committee compensation levels are competitive and fair based on attendance;
- The EnWin policy is reasonable when compared to other utilities; and
- Actual payments are aligned with policy

## Scope:

- External compensation benchmarks from other utilities in Ontario;
- Internal governance processes;
- Governance processes that exist at other LDCs in Ontario;
- Payments made in last 6 years;
- Minutes confirming attendance; and
- Attendance records.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 1 16 of 20

#### Criteria:

Our criteria, which management agreed to are:

- (1) Compensation paid is consistent with external benchmarks;
- (2) Oversight governance is in place. Regular process exists to measure and report on board and committee compensation levels;
- (3) Payments are accurate based on meetings attended; and
- (4) Attendance records are maintained and up to date.

#### **Summary Conclusion:**

Board and committee compensation is paid consistent with external benchmarks, particularly that of other LDCs. Payments are accurate based on meetings attended and attendance records are up to date.

## 5. Detailed Observations

1. Dividend strategy is consistent with benchmark data	
<ul> <li>Dividend policy consistent with other LDCs in Ontario</li> <li>A process exists to regularly review the effectiveness of the dividend policy</li> <li>Dividend is consistent with City of Windsor and EnWin business strategy</li> <li>Dividend policy is consistent with shareholder declaration</li> </ul>	Major – Action  Moderate - Attention  Minor- Consider  ✓ Status Quo

#### Observation:

EnWin's dividend of \$4 million per year is consistent with other LDCs and the wider utility market. We are aware of only one utility (Thunder Bay Hydro) who has a different policy and do not pay a dividend. With a book value of \$108 million (per 2011 annual report) the EnWin dividend provides a yield of 3.5% to the shareholder (City of Windsor). This is within the range of that being paid at other LDCs.

EnWin's policy for dividend payout is within the range of 25-55% of net income, which is consistent with that of other LDCs.

#### **Risk Implication:**

Not paying a dividend deprives the shareholder of a return on its investment. A shareholder's return can be through capital appreciation or dividends. The Board of Directors and secondarily the OEB provide governance over whether the dividend effectively balances the competing interests of the ratepayers and the shareholder.

#### **Recommendation:**

EnWin should continue to periodically survey the marketplace to ensure that the dividend continues to be at the right level. The OEB as the regulator is tasked to ensure that the utility continues to operate as a financially viable entity. As was seen in the past, in relation to another LDC, the OEB will step in if it determines the dividend is too high at the cost of not maintaining a financially viable utility company.

Management Response	Owner (Date)
Enwin accepts the findings	Enwin Utilities Board and Management (ongoing)

2. Execute measure	eutive incentive pay requires a more formalized surement and approval system.	Major – Action
Criteria	Oversight governance over compensation exists	Moderate - Attention
		Minor- Consider
		Status Quo

#### Observation:

The incentive payments to the executives should adhere to a methodology exclusively tied to Key Performance Indicators. While we reviewed various corporate metrics showing good operating results for Enwin (compared to other utilities in Ontario) and incentive pay comparable to benchmarks the methodology to calculate incentive pay should not include deviations to arbitrarily change those calculations. In this case, the deviations significantly reduced the payments.

#### **Risk Implication:**

If metrics are not clearly adhered to there is a risk that the payment is not properly supported. Having defined and specific Key Performance Indicators, they should be applied without deviation to ensure there is no disagreement with the final results between the employer and employees.

#### Recommendation:

Approvals for incentive pay should be formalized with clear supporting documentation that indicates the quantum of incentive pay being awarded as it relates to corporate and individual performance.

A standard methodology including a template that can be adhered to should be developed that uses the key metrics that were set at the start of the year and the corporate and individual results achieved against those metrics to determine incentive payments without deviation.

Management Response

	Owner (Date)
EnWin currently has incentive compensation processes for all of its employee groups. For unionized staff, the process is enumerated in the collective agreement. For non-union, non-executive staff, the process involves a standard template which is also considered in reviewing the executive staff. The results of the three processes are presented to the Board or a committee thereof each year with recommendations for disbursement according to each process.	Enwin Utilities Board and Management (Dec.31, 2013)
Enwin accepts the findings	

and the same		
3. Executive a data	nd Board Compënsation consistent with benchmark	
Criteria	Compensation is consistent with external	Major – Action
	benchmarks.	Moderate - Attention
		Minor- Consider
		Status Ouo
Observation:		
board do have p	poard compensation is consistent with external bench procedures in place to ensure that executive and board s, public corporations and other similar sized entities	compensation is consistent
Risk Implicat		
Executive and b effectively.	oard committee members have important roles to pla	y to ensure that EnWin operates
at a reasonable.	act and retain competent executives and other staff, En level given current market conditions. Given the spec apany, the pool of talent to draw from is limited.	nWin needs to compensate them ialized nature of an electrical
To attract effect Inadequate com for the role.	ive board members, EnWin needs to remunerate then pensation may prevent sufficiently qualified and suita	n at appropriate levels. able candidates from applying
Recommenda	tion:	
EnWin should c	ontinue to periodically survey the marketplace to ensu ontinues to be at the right level.	are that executive and board
Ma	anagement Response	Owner (Date)
		h
Enwin accepts	s the findings	Enwin utilities Board of Management
1		(ongoing)
		ļ
		1

Andrew School Section	vernance Guidelines	Major – Action
Criteria	Oversight governance over corporate activities exists (executive compensation, board compensation)	Moderate - Attenti Minor- Consider Status Quo

EnWin's Shareholder Direction states "The shareholder expects the Board to observe substantially the same standards of corporate governance as may be established from time to time by the Toronto Stock Exchange.....for publicly traded corporations with such modifications as may be necessary to reflect the fact that the Corporation itself is not a publicly traded corporation."

Examples of some areas covered by the TSX Corporate Governance framework include: strategic planning process, risk identification process, succession planning, communications policy, integrity of internal control and management information systems.

EnWin does not track its governance framework with reference to the various elements of the TSX Corporate Governance framework. At least insofar as compensation practices are concerned, we observed that the TSX Corporate Governance framework was not followed.

#### **Risk Implication:**

The TSX Corporate Governance framework provides "best practises" on how a publicly traded corporation should be governed. While EnWin is not a publicly traded company, its debt is held by institutional investors and the Shareholder Declaration directs EnWin to behave like a publicly traded entity where appropriate. Following the TSX Corporate Governance framework would provide greater rigour over how the business is governed expected by those with commercially reasonable expectations, such as customers, shareholders, the regulator, investors, and credit rating agencies.

#### Recommendation:

EnWin should identify the key aspects of the TSX Corporate Governance guidelines and develop a road map (with target dates) for adopting them.

Management Response	Owner (Date)
Enwin accepts the finding	Enwin Utilities Board and Management (Dec.31st, 2013)

Internal Audit of EnWin Utilities Ltd. – Procurement Process May 6, 2014



EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 2 of 25

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 3 of 25



May 6, 2014

Victoria Zuber Chief Financial Officer (CFO) EnWin Utilities Ltd. 787 Ouellette Avenue Windsor, Ontario N9A 5T7

Dear Ms. Zuber,

Please find attached our Internal Audit Report on the Procurement process.

We would be pleased to answer any questions you have.

Yours truly,

PricewaterhouseCoopers LLP

Encl.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 4 of 25

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 5 of 25

## **Contents**

#### **Executive summary**

**Internal Audit Ratings** 

#### **Detailed Commentary**

Audit Objective and Scope

- 1. Reasonable Oversight
  - 1.1 Board approval process for operating and capital expenditures
  - 1.2 Alternative tendering options should be considered
  - 1.3 Performing joint procurements with other Local Distribution Companies
  - 1.4 Monitoring and control of sole source and single source procurements
- 2. Reasonable Policy
- 3. Policies Implemented
  - 3.1 Automated Spending Controls not turned on in SAP
  - 3.2 Data Quality could be improved
- 4. Reasonable Results
  - 4.1 Vendor Assessment not performed

Appendix A - Data Analytics Review

**Appendix B** – Factors to consider in developing Policy for Sole Source/Single Source Procurements

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 6 of 25

## **Executive Summary**

#### **Overview and Approach**

Our work was performed in accordance with the International Standards for the Professional Practice of Internal Auditing and the Canadian Institute of Chartered Accountants (CICA).

We used a Value for Money (VFM) audit approach. The CICA provides guidance on conducting value for money and compliance audits. Value for Money focuses on whether money was spent with due regard for economy and efficiency and whether appropriate procedures were in place to measure and report on effectiveness of service delivery.

#### Our approach was:

- Establish an audit objective;
- A scope was defined that establishes our population for testing;
- Criteria to be tested was established which was agreed to with management;
- A conclusion on our testing along with internal audit recommendations and management's action plans to address these recommendations.

The scope of our work involved approximately \$30 million in expenditures and a vendor population of 400 (active vendors). We tested procurements for the years 2012 and up to July of 2013. Our testing commenced in August 2013. We performed financial, operational and compliance testing. We also performed data analytics for the Vendor Master and Employee Master database.

Our financial testing covered the ordering process; invoice processing; payments; vendor management; standing data maintenance; and segregation of duties and restricted access.

Our operational and compliance testing covered corporate governance over the procurement process.

In our report we have grouped our testing and criteria into four categories:

- Reasonable Oversight;
- Reasonable Policy;
- Policies Implemented;
- Reasonable Results.

#### **Summary Conclusions:**

#### **Reasonable Oversight:**

The EnWin Purchasing Policy and procedures provide for reasonable oversight. Our testing found that procurement is conducted in accordance with EnWin's policies. However Board approval levels are out of alignment with comparable companies. Management needs to continually monitor whether approval levels need to be adjusted based on business needs and the timeliness of conducting transactions.

Financial controls are satisfactory and our testing of the payments system did not reveal any issues with the Purchasing and Payables process:

- Purchase orders and invoices are complete, accurate, valid and processed in a timely manner;
- Payments due are paid accurately and only once to the appropriate vendor;
- Changes to standing data are complete, accurate and valid;
- Good segregation of duties exists.

Our review of a sample of procurement files found that:

- Well defined strategy does exist involving all stakeholders;
- Needs assessment is completed prior to initiating work;
- Sufficient planning is performed;
- Scope of work is well documented;
- Competitive tendering does occur;
- Agreements are authorized appropriately;
- Regular ongoing oversight over agreements does occur;

Four opportunities for improvement exist:

The first opportunity is **Board approval methodology for procurements should be better aligned with those of comparable utilities**. **Necessary and sufficient board authorization occurs when the annual budget is approved. Subsequent authorization of expenditures is not necessary.** Currently all contractor services >\$100,000 and consulting services >\$100,000 need to be approved by the Board of Directors both in approving the budget and in awarding of procurement contracts. With the current procurement authorization methodology Board members become too involved in the day-to-day management of the corporation and are going beyond performing their oversight governance role.

We sampled five other utilities of similar size and found that the \$100,000 level for Board Approval at EnWin was the lowest. Our sample involved utilities with a customer base from 50,000 to 300,000. Boards approved the annual operating and capital budget. For expenditures outside of the budget the range of Board approval for operating expenses was from \$50,000 to \$500,000 and from \$50,000 to \$2.5 million for capital.

Board Approvals of Operating and Capital Procurements			
Utility	Budget	Subsequent – Within Budget	Subsequent – Beyond Budget
1	Yes	\$1 million	\$100,000
2	Yes	No	\$2.5 million
3	Yes	No	\$100,000
4	Yes	No	\$500,000 (\$1 million for capital)
5	Yes	No	\$50,000
EnWin (Current)	Yes	Yes	\$100,000
EnWin (Recommended)	Yes	\$1 million	\$100,000

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2

Further the EnWin policy should distinguish between "budget approved expenditures" (which do not require individual Board approval since the budget was already approved by the Board) and "non-budgeted" expenditures which do require individual Board approval.

The second is to **explore alternative tendering options.** We reviewed one project awarded as part of the 2012 capital plan. The purchasing policy has been focused on awarding work based on least cost. However EnWin relies extensively on outsourced construction providers to maintain the grid. For 2013 and the next 5 years the capital plan is about \$15 million per year with 40 percent being completed by contractors. It is critical that long term sustainable relationships be developed with reliable contractors rather **than always going to** tender. One option to reduce costs would be to tender for multiple contracts rather than do only one at a time.

The reliability and sustainability of the grid is EnWin's most critical risk so we recommend a process that does not always award work based exclusively on least cost. Suppliers effectively become an extension of EnWin's work force and should conform to EnWin's quality control and safety protocols. Suppliers can be more cost competitive when a tender goes out for multiple contracts. This is also more efficient from an administrative perspective.

The third area identified is **performing joint procurements with other local distribution companies (LDC).** Many utilities face issues that are common. We are aware of some that have teamed up to provide information technology solutions (customer information system). In this way development costs are shared. We understand there is a current joint procurement with the City of Windsor for the supply of fuel for vehicles.

EnWin's policies should be updated to reflect the processes that will be followed for joint procurements and the areas where this can be undertaken. Rather than just focusing on lowest cost consideration should always be given to balancing the three key elements that will contribute to EnWin's success (i) providing reliable service; (ii) that is sustainable; and (iii) at least cost.

In our review of the new customer information system file (CIS) we did note that opportunities were explored with other LDCs. We concur with EnWin's determination that in the case of the CIS a joint initiative with one or more other LDCs was not the best economic option. There will likely be other occasions where EnWin has identical challenges to other LDCs and the ability to procure jointly should always be an option that is considered.

The fourth area identified is **monitoring and control over sole source and single sourcing.** Currently this is not monitored and reported back to the Board. There will be occasions where it makes business sense to enter into these arrangements. Sole

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2

source for those cases where there is no other source of supply (e.g. Company does checks for stray voltage and works with some of the LDCs in Ontario) and single sourcing where it is decided not to enter into competitive bids and a supplier is selected for strategic reasons.

We recommend that policies be developed around sole and single sourcing and the purchasing policy be updated accordingly. Management should monitor and report to the Board the number of sole and single sourcing procurements that EnWin is entering into. Board reporting should be on a statistical basis (e.g. Percentage of sole source and single source as a percentage of the total population) rather than individual, specific details.

In Appendix B we provide factors to consider in developing a sole source/single source procurement policy.

#### **Reasonable Policy:**

The existing policy has served EnWin well but it is ready for an update as it was last updated February 16, 2012.

Our testing confirmed that procurement policy is effective in sourcing services and it is somewhat consistent with other LDCs with which we are familiar. Agreements we reviewed comply with corporate policy. The materials reviewed comply with Ontario Energy Board (OEB) policy.

As highlighted under "Reasonable Oversight" an opportunity exists to enhance the policy by including sections on (i) Board approval levels should be reviewed; (ii) alternative tending options be considered (iii) performing joint procurements with other LDCs and (iv) monitoring of sole and single source vendors.

#### **Policies Implemented:**

Management is responsible to ensure that transactions are completed in accordance with EnWin's corporate policies.

Our testing confirmed that policies have been appropriately implemented. Project management is effective. Terms of agreements are adhered to and purchasing projects selected for review did comply with the purchasing policy and procedures. Purchase orders are issued and approved and contracts are approved appropriately. Payments are only made after a three way match occurs between the invoice, purchase order and the contract terms.

We also did a match between the vendor and employee master data base (as part of our data analytics testing) to uncover any potential conflict situations. One potential situation was identified and we reviewed the file and found no anomalies.

There are two opportunities for improvement:

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 11 of 25

The SAP system spending limit controls have not been turned on and in one case in our sample spending was exceeded by a small amount (\$500) relative to the authorized procurement (\$140,000). While we recognize this is a very small amount an opportunity does exist to turn on this feature in SAP so that this control is active and it will help to prevent spending above the limit that has been set through the procurement process.

Secondly, our data analytics showed that data quality could be improved. While we understand that SAP does provide flexibility in terms of how various fields are set up we did discover that there are 2,734 vendor records in the system however there are only about 400 active vendors. An opportunity exists to cleanse the data in the vendor master data records in order to remove inactive vendors from the system

#### **Reasonable Results**

Achieving durable value and sustaining economic performance is critical for EnWin's success. Overall we found that transactions are conducted with giving consideration to value for money. Management does consider obtaining the best value in their procurement decisions.

One area that could be improved is EnWin does not have a "vendor assessment process". To develop positive long term relationships with vendors it is essential that a vendor management process be developed. In this way vendor performance can be monitored continually. If any issues develop they can be dealt with quickly through the vendor assessment process.

12 of 25 **Category** Criteria Pass/Fail **Comments** Well defined strategy prepared for completing 1. Reasonable Pass Four the project involving all stakeholders; improvement **Oversight** Needs assessment was completed prior to areas 1.1, 1.2, initiating work; 1.3, 1.4 Sufficient planning was performed so that scope of work could be adequately planned: Scope of work is documented at sufficient breadth and depth in order that informed bids can be prepared; Company procurement practices were adhered Procurement provides for a competitive tendering process in awarding contracts; Agreements were authorized by appropriate signing authorities; Regular ongoing oversight is performed by management over the agreements to ensure their ongoing effectiveness of service delivery; Regular Board oversight occurred over the agreements: Windsor Canada Utilities Ltd. periodically makes a report to the City Council on EnWin's compliance with the shareholder direction; Purchasing policy is effective in sourcing; Same four 2. Reasonable Pass Policy consistent with other LDCs; improvement **Policy** Agreements comply with corporate policy; areas Agreements conform with legislation (OEB); identified above 3. Policies Effective project management was in place and **Pass** Two progress monitored regularly to ensure improvement **Implemented** deliverables met and project cost within budget; areas "Scope creep" is controlled; identified 3.1 Terms of agreement have been adhered to; and 3.2 Project follows Purchasing Policy and procedures; Purchase orders issued and approved; Contracts signed before work commences; Payments made based on achieved results and not billable hours; Sole sourcing is appropriate; Payments made after three way match (invoicepurchase order-contract terms); Billings evaluated against project process; Transactions are conducted using VFM; 4. Reasonable **Pass** One Effectiveness of service delivery is measured by improvement Results conducting post-project review; areas An active vendor management process exists so identified 4.1 that vendor performance is continually monitored.

## **Detailed Commentary**

#### **Audit Objective and Scope:**

#### **Objective:**

Assess whether EnWin's Procurement process is designed and operating effectively to ensure that a fair and competitive procurement process exists.

#### **Background:**

EnWin Utilities Ltd. undertakes approximately \$30 million in purchases in a given year from approximately 400 different vendors. The procurement process consists of several different types of purchasing transactions including capital purchases, material/subcontracting purchases, purchasing cards, operating expenditures and purchasing agreements/ongoing contracts.

Currently, a purchasing policy and procedures manual exists which outlines the key procedures in place over the various types of purchasing transactions. Management has undertaken a project to update and revise, as necessary, the current purchasing policy. In doing so, management's focus has been on ensuring the policy is appropriate. This includes ensuring it is consistent with the shareholder (City of Windsor) vision and consistent with the policies of other LDCs.

The purchasing department consists of a purchasing manager, a supervisor and two buyers and all purchasing for the company is centralized through this purchasing department. The processing of invoices and payments are administered by the finance department which is led by the Director of Finance. Some internal controls are embedded into the software system, however manual controls are still required and as such, there is a mix of both automated and manual controls in the processing of purchases and payments.

#### Scope:

- Project charter and needs assessments for entering into procurement process;
- Agreements between EnWin and vendors;
- Project business case;
- Project governance documentation;
- Applicable legislation;
- EnWin procurement policies:
- Contract documentation;
- Submitted proposals from vendors;
- Proposal evaluations, contracts, invoices, payment records;
- Board minutes;
- Management interviews;
- Sole source documentation:
- Sample procurements from 2012 and 2013;

## 1. Reasonable Oversight

#### **Background:**

Oversight occurs at the executive management and Board levels. The executive team is appointed to run the business and to provide assurance to the Board of Directors that the objectives of the organization are being achieved. This oversight involves supervising those they manage, ensuring procurement is consistent with EnWin's strategy, risk tolerance and that policies are approved by the Board. The Board is accountable to the shareholder for EnWin's strategy and performance. In addition, they are accountable to the debt holders to ensure the long term sustainability of the corporation.

#### **Conclusion:**

Reasonable oversight is provided over the procurement process and EnWin's policy is comparable to other utilities. To strengthen oversight four areas have been identified:

- (i) Board approval levels should be reviewed:
- (ii) Tender for multiple contracts to gain efficiencies;
- (iii) Perform joint procurements with other LDC's; and
- (iv) Sole source and single source procurements should be monitored.

## 2. Reasonable Policy

#### **Background**

Policies are designed to ensure management has the appropriate framework to deal with day to day business. Policies delegate authority to respective individuals.

#### **Conclusion:**

The existing policy has served EnWin well, however opportunities exist to update it for:

- (i) Strategic sourcing of vendors;
- (ii) Performing joint procurement with other LDCs and
- (iii) Monitoring of sole source and single source single source vendors.

## 3. Policies Implemented

#### **Background:**

EnWin's management develop practices to deal with internal business transactions and its interactions with external parties (vendors, stakeholders etc.). Management is responsible to ensure that transactions are carried out in accordance with EnWin's corporate policies.

#### **Conclusion:**

Transactions are carried out in accordance with EnWin's Corporate Policies but opportunities for improvement still exist, including:

- (i) Activating automated spending limit controls in SAP. This use of technology would reduce the risk of exceeding spending limits such as the instance we noted in one contract. This \$140,000 contract had its limit exceeded by \$500 from what was approved on the Capital Expenditure Approval form (which is not linked to the SAP system) and
- (ii) Data quality could be improved:
  - 8% (229 vendors) have duplicate postal codes but different addresses;
  - 6% (154 vendors) have the duplicate contact information;
  - 4% (113 vendors) have duplicate addresses but different vendor name;
  - 2% (46 vendors) have both address and PO box populated in the Vendor Master;
  - 1% (30 vendors) have duplicate vendor names;
  - 1% (28 vendors) have invalid postal codes;
  - 0.6% (17 vendors) has duplicate Post Office Box numbers and different vendor name.

To improve the internal control environment and ensure the accuracy, completeness and authenticity of transactions requires good data integrity. This is best achieved when vendors are first entered into the system. Automated controls should trigger when data is incomplete or duplicated.

Data integrity will also help to prevent fraud and identify employees who may also be vendors to EnWin. Matching the employee to vendor data base can detect these situations and help to ensure that any conflicts of interest are managed appropriately. For greater clarity, our audit found no instances of fraud or improper dealings with employees; these recommendations are to further improve risk management as a continuous improvement initiative.

## 4. Reasonable Results

#### **Background:**

EnWin strives to fulfill its fiduciary duties and legal obligations while at the same time creating durable value and sustainable economic performance.

#### **Conclusion:**

(i) Results overall are reasonable. One area for improvement is a vendor assessment process should be implemented. An active vendor management process will help to ensure EnWin builds a positive relationship with vendors.

EB-2019-0032
Filed: August 1, 2019
Responses to Interrogatories from SEC
1 - SEC - 7 - Attachment 2
16 of 25

Major – Action  Moderate - Attention  Minor- Consider  Improvement Opp				
eviewed. Currently all to be approved by the avolved in the day-to-day sight governance role.				
We sampled five other utilities of similar size and found that the \$100,000 level for Board Approval at EnWin was the lowest. Our sample involved utilities with a customer base from \$50,000 to \$300,000. Boards approved the annual operating and capital budget. For expenditures outside of the budget the range of Board approval for operating expenses was from \$50,000 to \$2,500,000 and from \$50,000 to \$2.5 million for capital.				
<b>Risk Implication:</b> Board members become too involved in the day-to-day management of the business which takes away from their governance role.				
ce can be achieved. ures" (which do not ed by them) and "non-				
Owner				

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 17 of 25

2. Tendering for multiple contracts				
Criteria  • Well defined strategy • Needs assessment completed • Company procurement practices adhered to • Competitive tendering performed in awarding Contracts • Agreements authorized	Major – Action  Moderate - Attention  Minor- Consider  Improvement Opp			
Observation:				
EnWin tenders for one contract at a time which can be very labour intensive policy is comprehensive it does focus on awarding work based on lowest compartners is particularly critical for the core business — network build. We reawarded as part of the 2012 capital plan.	st. Having reliable			
For 2013 and going forward the next five years the capital plan is about \$15 million per year. Of this total approximately 40 percent of the plan is completed by using contractors rather than EnWin employees				
Risk Implication:				
Network needs to (i) provide reliable service; (ii) that is sustainable; at (iii) least costs. Rather than just focusing on lowest cost consideration should be given to balancing all three elements. Maintaining the electrical grid is the most critical risk for a local distribution company.				
Recommendation:				
Consider tendering for multiple contracts to gain increased efficiencies and moving away from a "least cost" procurement process to one that develops a more strategic relationship with suppliers. Suppliers can become more cost competitive knowing that the contract terms are of a longer duration.				
Management Response	Owner (Date)			
The current EnWin Purchasing policy can be amended to include provisions for tendering for multiple contracts. The construct under which this approach would be undertaken requires development and approval concurrently with the policy amendment.				

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 18 of 25

	1 - SEC - 7 - Attachmen 18 of			
3. Performing joint procurements with other Local Distribution Companies	Major – Action			
<ul><li>Criteria</li><li>Needs assessment completed prior to invitation</li><li>Sufficient planning performed</li></ul>	Moderate - Attention			
<ul> <li>Procurement provides for competitive tendering in awarding contracts.</li> </ul>	Minor- Consider			
	Improvement Opp			
Observation:				
As many LDCs face similar challenges opportunities exist to enter into joint review of the Customer Information System (CIS) procurement this was exproceed due to cost reasons which we found was a reasonable conclusion. Various procurement is currently underway with the City of Windsor for the surface of	plored EnWin did not We were also advised that a			
Combining the purchasing power of other organizations and EnWin can yield cost advantages for both organizations. These would need to be undertaken with the oversight of the management and Boards of EnWin and the other organization to ensure that both organizations best interests are represented at all times and one is not taking advantage of the other corporation.				
Risk Implication:				
Risk of paying too much for certain goods or services (such as fuel for vehice expenditure for both organizations. Can achieve economies of scale by comother organizations, reducing overall cost for both corporate entities.				
Recommendation:				
EnWin's policies should be updated to reflect the processes that they will fo procurements. Also the goods or services where this can be undertaken should be updated to reflect the processes that they will for procurements.				
Management and the Board of EnWin should monitor and be aware of joint proper governance. Objective here is to ensure that least cost at reasonable both corporate entities. One entity should not be put in a position of taking	quality is achieved fairly for			
Management Response	Owner (Date)			
Working co-operatively with other LDC's on procurement initiatives is desirable. The challenge for a successful implementation will be the identification of which goods and services to include, the method in which to structure the co-operative, and resource commitment from the other LDC Participants.				

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 19 of 25

		1 - SEC - 7 - Attachm 19		
	g and Control of "Sole Source" and "Single ocurements	Major – Action		
Criteria	<ul> <li>Well defined strategy</li> <li>Needs assessment completed</li> <li>Agreements authorized</li> <li>Sufficient planning (Scope, deliverables) performed.</li> </ul>	Moderate - Attention Minor- Consider  Improvement Opp		
Observation:				
makes business	Source procurements are not being monitored. There will sense to enter into these arrangements. Strategically this ficial to EnWin's interest in the long run.			
transaction. This services required can be an unforce	casions where it makes business sense to enter into a sole is can occur when only one vendor is uniquely capable of I d and no other vendor can provide such goods and/or serveseeable situation of urgency or emergency where the good neans of a competitive process as required by the procure	providing the goods and/or vices. The other situation ds and/or services cannot		
the procuremen	In order to provide proper governance a justification report should be completed and approved by the procurement department and the requesting department. It should also be approved in accordance with the company signing authority policies.			
Risk Implicati	ion:			
	icient or excessive use of "sole" and "single" sourcing. Ma of how much of this is occurring.	nagement and the Board		
Recommenda	tion:			
	be developed for "sole" and "single" source procurement. ed to cover this. In Appendix "B" we provide some factors			
N	Management Response	Owner (Date)		
criteria under wh be appropriate. I proper document	purchasing policy should be amended to include nich a sole or single sourcing procurement would Proper due diligence is required, along with tation and approval process for the non-ovals. A tracking mechanism will need to be cilitate reporting.			

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 20 of 25

		20
5. Automated Syste S.A.P.	m Limit Controls not turned on in	Major - Action
Criteria	<ul> <li>Follow EnWin Purchasing Policy and Procedures</li> <li>Regular ongoing oversight occurs.</li> </ul>	Moderate - Attention Minor- Consider Improvement Opp
Observation:		
\$140,000(\$500 over). form does not have a s	total spend of \$140,500 on a contract when the Limits are recorded on the Capital Expenditure system link with the SAP system. This was the coint to an opportunity to link the Capital Expen- ne SAP system	re Approval form however this only error we noted and while
Risk Implication:		
have budget dollars as	end beyond the limit that has been set. The pro- signed to them within the system. We were adv have been relied upon to date.	
Approval process show small overage an oppo	ould be set up so that dollar limits are not exceed that he integrated with the processes in SAP Whortunity does exist to turn on this feature in SAP went spending above the limit that has been set t	ile we recognize this is a very so that this control is active
Manag	ement Response	Owner (Date)
the functionality of buc Project Systems Modul would reject new comm that exceed beyond 110 currently reviewing thi	tly reviewing the opportunity to utilize alget controls within SAP. The SAP is was designed with control limits that nitments and time confirmation postings 10% of the budget. Management is a feature to satisfy the opportunity this control within the system.	

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2

6. Data Quality Could Be Improved		Darion Antion
Criteria	<ul> <li>Conformance to Purchasing Policy and Procedures</li> <li>Transactions are conducted that demonstrate value for money (VFM)</li> <li>Payments made after three way match (invoice-purchase order – contract</li> </ul>	Major - Action  Moderate - Attention  Minor- Consider
	F 1- 1-1-11 - 11-1-11	Improvement Opp

#### **Observation:**

We observed 2,734 vendor records however there are only 400 active vendors. This indicates that the vendor master record should be cleansed. Specifically:

- 8% (229 vendors) have duplicate postal codes but different addresses;
- 6% (154 vendors) have the duplicate contact information;
- 4% (113 vendors) have duplicate addresses but different vendor name;
- 2% (46 vendors) have both address and PO box populated in the Vendor Master;
- 1% (30 vendors) have duplicate vendor names;
- 1% (28 vendors) have invalid postal codes;
- o.6% (17 vendors) have duplicate Post Office Box numbers and different vendor name.

#### **Risk Implication**

Errors can occur when the data is not accurate. There is an increased risk of fraud such as employees creating a vendor and doing business with the company. Conflicts of interest may not be properly monitored. Payments may be made incorrectly and to the wrong vendor. Vendors with incomplete fields can lead to inaccurate and/or incomplete payments.

#### Recommendations

Review the exceptions noted and remove duplicate vendors in the vendor master file and complete fields that are missing. Procedures should be implemented to improve data quality at point of original data entry when a new vendor is created. This will help the control environment by ensuring that duplicate and incomplete data is detected and corrected

Management Response	Owner (Date)
A large percentage of the vendor master records identified in the audit were carried over from EnWin's legacy system into SAP upon the go-live conversion in 2010. A process improvement will be implemented to review the data annually, at a minimum, and flag inactive vendor master data for deletion.	

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 22 of 25

7. Vendor Assessments Not Performed	=
Criteria  • Effectiveness of service delivery is measured by	Major – Action
conducting a post project review  • An active vendor management process exists so	Moderate - Attention
that the vendor performance is continually monitored.	Minor- Consider
momtored.	=
	Improvement Opp.
Observation:	
Vendors perform a critical service for EnWin. It is important that their per and assessed on a regular basis. Assessments of vendors do not occur. Sin EnWin's business is carried out by vendors, especially the outside construct to have a positive collaborative long term relationship with vendors.	ce a substantial portion of
Performing vendor assessments helps to deal with any issues that may aris relationship and also helps to build trust between the two parties.	e during the course of the
EnWin should develop policies that deal with vendor assessments and crea process that will help EnWin achieve its objectives.	te a vendor management
Risk Implication	
May continue to use vendors who have not provided appropriate service in monitoring vendors becomes more difficult to change behaviour if objectiv Strategic initiatives may not be achieved without having a good relationship	es are not being met.
Recommendation	
A vendor assessment process should be developed and followed. This process in EnWin's policies. An important part of vendor management is a rigorous process to ensure that work is conducted in a timely manner and meets En	s vendor assessment
Management Response	Owner (Date)
Vendor evaluation and ongoing vendor development is a priority which was previously identified by EnWin prior to this audit. Development and establishment of a vendor evaluation system has been instituted as a department goal and objective for 2014.	

23 of 25

1 - SEC - / - Attachment 2

#### Objective:

- 1) To identify any potential matches of name or addresses between the Vendor Master and the Employee Master File for all vendors not listed as employee type "6"
- 2) To verify that all vendors listed as type "6" (Employees) exist in the employee master file with an active status
- 3) To identify potential duplicate key fields (number, mailing address) and name within the Vendor Master File
- 4) To identify vendors with incomplete or invalid key fields (phone number, address, postal code) in the vendor master file.

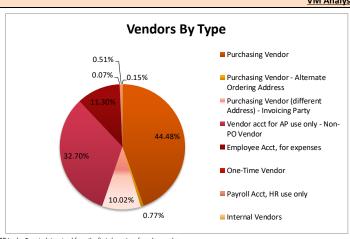
#### From our analyses, we noticed 2 key themes in our observations:

#### 1) Data Quality

- There are a number of Potential duplicates in the vendor master file
- -There are vendors with incomplete key fields in the vendor master file.

- There may not be sufficient / appropriate controls in place to detect and prevent duplicate data or incomplete data.
- Potentially, there may be certain individuals not following through with the defined process when creating a vendor.

#### VM Analysis - Vendor Types

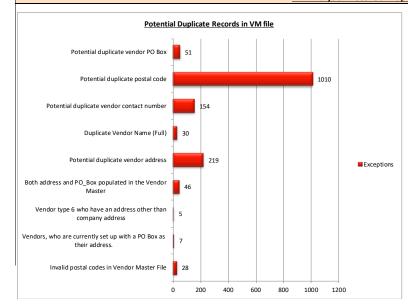


Vendors by Type				
Vendor Type	Description	% of total	Vendors	Inactive
1	Purchasing Vendor	44%	1,216	22
2	Purchasing Vendor - Alternate Ordering Address	1%	21	-
3	Purchasing Vendor (different Address) - Invoici	10%	274	-
4	Vendor acct for AP use only - Non-PO Vendor	33%	894	-
6	Employee Acct, for expenses	11%	309	-
7	One-Time Vendor	0%	2	-
9	Payroll Acct, HR use only	1%	14	-
I	Internal Vendors	0%	4	-
	Total		2,734	

#### **Key Observations**

- The 2 key vendor types are 1 (purchasing vendor) and 4 (purchasing vendor for AP use only), making up close to 77% of all vendors

#### VM Analysis - Potential Duplicates in VM file



Test	Description	Exceptions	% of total
VM10	Invalid postal codes in Vendor Master File	28	1%
	Vendors, who are currently set up with a PO		
VM09	Box as their address.	7	0%
	Vendor type 6 who have an address other		
VM08	than company address	5	0%
	Both address and PO_Box populated in the		
VM06	Vendor Master	46	2%
VM05	Potential duplicate vendor address	219	8%
VM01	Duplicate Vendor Name (Full)	30	1%
VM2A	Potential duplicate vendor contact number	154	6%
VM3A	Potential duplicate postal code	1010	37%
VM04	Potential duplicate vendor PO Box	51	2%

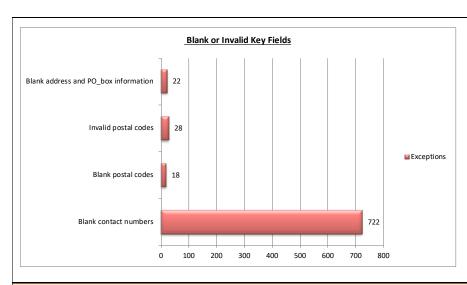
#### **Key Obervations**

There are a number of vendors who are potential duplicates. Within these duplicates: -Several postal codes are not correctly tied with the address. Of the 1010 (22%) duplicate postal codes noted, many of them have different addresses. -Similarily, of the 219 (14%) duplicate vendor addresses noted, there are 31 instances

where the address is duplicating, but the postal code is different

<sup>\*\*</sup>Vendor Type is determined from the first character of vendor number

<sup>\*\*</sup> inactive vendor defined by any vendor that does not have a confirmation date



	Vendors with Blank or Invalid Key Fields in VM file							
Test	Description	Exceptions	% of vendors					
VM2B	Blank contact numbers	722	26%					
VM3B	VM3B Blank postal codes		1%					
VM10	Invalid postal codes	28	1%					
VM07	Blank address and PO_box information	22	1%					

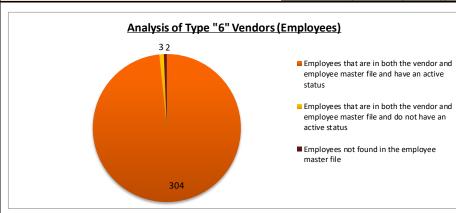
## **Key Observations**

-There are numerous blank or invalid key fields throughout the file, noted in the chart

-These fields are critical to vendor master management and for the payment process.
- Client contact field is not a key field. It would be good to have it populated, as it is

- Client contact field is not a key field. It would be good to have it populated, as it is helpful by providing additonal client information.

## VM to VE Analysis - Analysis of Type "6" Vendors (Employees)



Analysis of Vendor type "6"					
Description	Vendors	%			
Employees that are in both the vendor and employee master					
file and have an active status	304	98%			
Employees that are in both the vendor and employee master					
file and do not have an active status	3	1%			
Employees not found in the employee master file					
	2	1%			
Total	309	100%			

### **Key Observations**

- Very few type 6 employees who are not found in the Employee file.

## VM to VE Analysis - Potential Matches (Same address or Name) between VM and VE

	Comparison between the VM and VE file						
Test	Description	Exceptions					
VE1	with vendor name from VM File	18					
	Comparison between employee address from VE File						
VE3	with vendor address from VM File	2					

\*Does not include type "6" (Employees) vendors

### Key Observation

Of the 18 instances where the employee name is the same as that in the vendor master file, 5 are definite matches

Of these 5 definite matches, 3 of them have either an inactive or withdrawn status in the employee file

## EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 2 25 of 25

## Appendix B

Factors to Consider in Developing Sole Source/Single Source Procurement Policy Sole Source

- In order to obtain approval for a sole source purchase, the Business Unit should complete a Justification report for the Procurement Dept. The Justification Report should be approved in accordance with the Signing Policies.
- Upon receiving a completed Justification Report, the Procurement Department should conduct a due diligence review of the sole source purchase request to confirm that either:
- (i) only one vendor is uniquely capable of providing the goods and/or services required and no other vendor can provide such goods and/or services; or
- (ii) an unforeseeable situation of urgency or emergency exists and the goods and/or services or construction cannot be obtained by means of a competitive process as required by the Procurement Policy.
- Upon receiving a completed Justification Report, the Procurement Department in consultation with Legal Dept will conduct a due diligence review of the extension request to determine if the current contract permits such an extension and whether such extension is in the best interests of EnWin, including a review of the proposed contract's specifications, scope, commercial terms, liabilities, and insurance requirements.

## Single Sourcing

• If the business unit wishes to maintain a single sourcing list in respect of certain specified goods and/or services (not including construction contracts), where the estimated annual value of the Procurement does not exceed (i)\$xxx in the case of a Procurement of goods only, or (ii) \$xxx in the case of a Procurement of services only or a combination of goods and services. The Manager should determine that the nature of such goods and/or services is such that the competitive procedures would not be suitable for the Procurement in question. The following are suggested:

The Business Unit and the Department shall work together to compile a list of vendors for the purchase of the specified goods and/or services through completion and evaluation of vendor application and by conducting a due diligence examination of the marketplace. The vendor list shall describe the goods and/or services for which it is intended to be used and may not be used for any other goods and/or services. Once a vendor list is established, the Manager approves the single source vendor list in writing by completing a copy of the vendor list. (ii)The single source vendor list should be updated annually through a new application and evaluation process as described above. Upon receiving a completed single source Vendor Purchase Request the Procurement Department should confirm that the vendor is a current vendor on the single source vendor list for the applicable goods and/or services and that the goods and/or services procured align with the goods and/or services for which the single source was approved. (ii) The review should also determine if the single source purchase is in the best interests of EnWin and include a review of the proposed contract's specifications, scope, definition, commercial terms, liabilities, and insurance requirements.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 3



## AGENDA SUBMISSION

To:	EWU Board of Directors	
		July 26, 2016
From:	Victoria Zuber	

## Re: PWC Internal Audit Report

As part of Windsor City Council's approved revised 2015/16 Internal Audit Plan, PWC performed a Performance-Based audit involving areas of asset management at Enwin Utilities, and the associated processes and controls involved in those areas.

Enclosed is their final report which includes management's comments.

It is important to note that PwC has indicated that none of the findings are regarded as significant and that if implemented, the recommendations will provide greater efficiency and better leveraging of our work management systems rather than address any major control deficiencies. Overall management is in agreement with the findings and for the most part was already aware of the noted issues. Current funding and limited resources have resulted in a focus on the higher risk areas and ensuring they are adequately addressed. The audit report clearly indicates that management has done a good job in those areas.

SAP is our Enterprise Resource Planning ("ERP") system. It went live in 2010. We have since installed a new Customer Information System ("CIS") in 2014, and have just completed the installation of our Outage Management System ("OMS"). We embarked on a five year strategy to implement mobile field devices in 2013. Many of the recommendations in this report are recommendations to optimize our use of our systems. We will be evaluating those from a cost/benefit perspective as well as prioritizing any recommended enhancements.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 3 2 of 27 July 26, 2016

## **EWU Board of Directors**

2

## Recommendation

That the PWC Internal Audit Report be received.

Vice President, Finance and CFO

President and CEO

www.pwc.com

## The Corporation of the City of Windsor Enwin Utilities Ltd

Final Internal Audit Report

9 August 2016

## Distribution List

### For action

Helga Reidel - Chief Executive Officer Victoria Zuber - Chief Financial Officer John Wladarski - Vice-President Asset Management John Stuart - Vice-President Operations Jim Brown - Director of Hydro Infrastructure Grant Pennington - Director Hydro Operations

## For information

Onorio Colucci, Chief Administrative Officer Stephen Cipkar, Executive Initiatives Coordinator

## **Limitations & Responsibilities**

This information has been prepared solely for the use and benefit of, and pursuant to a client relationship exclusively with The Corporation of the City of Windsor (the "City"). PricewaterhouseCoopers ("PwC") disclaims any contractual or other responsibility to others based on its use and, accordingly, this information may not be relied upon by anyone other than the City. The material in this report reflects PwC's best judgment in light of the information available at the time of preparation. The work performed in preparing this report, and the report itself is governed by and in accordance with the terms and conditions of the internal audit services engagement letter between PwC and the City dated 18 April 2013.



EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 3 4 of 27

## **Contents**

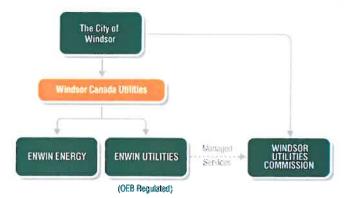
Summary of Internal Audit Results	1
Background Information	
Report Classification	2
Internal Controls Assessment	2
Summary of Findings	5
Management Comments	5
Detailed Observations	6
Considerations for Improvement	16
Appendix A: Background & Scope	17
Appendix B: Basis of Finding Rating and Report Classification	19
Outage report analysis – Enwin Utilities	99

## Summary of Internal Audit Results

## **Background Information**

The City of Windsor is the sole shareholder of Windsor Canada Utilities, Ltd ("WCU"), a holding company which owns both Enwin Energy Ltd. ("Enwin Energy"), as well as Enwin Utilities Ltd. ("Enwin Utilities"). Windsor Utilities Commission ("WUC") is a local board of the Corporation of the City of Windsor, which receives managed services from Enwin Utilities (all three collectively, "Enwin").

The chart below describes the operating structure as of March 29, 2016.



WCU provides strategic direction and financing to the operations of Enwin Utilities as well as Enwin Energy.

Enwin Utilities is Windsor's Local Distribution Company, responsible for the distribution of electricity and the servicing and maintenance of Windsor's power line infrastructure. Enwin Utilities provides services to WUC with respect to the operating the water treatment and distribution system as well as District Energy. The services include: management, administrative services, construction operations, and maintenance services. The Corporation is responsible for providing all personnel required to operate the water system and District Energy. Enwin Utilities provides billing, credit, financial, and customer service on behalf of the City of Windsor in relation to waste water. Enwin Utilities also provides billing, credit, financial, customer service and other support services on behalf of Enwin Energy in relation to sentinel lighting and street light maintenance. Enwin Utilities' arrangements with these affiliates are subject to the Ontario Energy Board's Affiliate Relationships Code (the "ARC"), which is a code prescribed by and issued pursuant to the Ontario Energy Board Act, 1998.

Enwin Utilities has appointed multiple elected City officials on their Board of Directors, including the Mayor as well as independent Directors.

As WCU is wholly owned by the City of Windsor, they are accounted for on a modified equity basis, consistent with the generally accepted accounting treatment for a Government Business Enterprise ("GBE"). Under the modified equity basis, the business enterprise's accounting principles are not adjusted to conform to those of the City, and inter-organizational transactions and balances are not eliminated. On an annual basis, Windsor Canada Utilities may declare a dividend to its shareholder based on the results of the most recent fiscal year. Major transactions include the collection and remittance to the City of sewer surcharge billings.

The engagement has been performed in accordance with the scope of work per Appendix A.

## Report Classification

In general, controls are properly designed and are operating effectively for the purpose envisaged. Overall, Enwin Utilities has prioritized the assets in need of attention and have been following through on its plan to address these. Cost tracking is in place with a strong emphasis on meeting the established budget for the year and for the respective projects.

## Internal Audit Classification

Given the nature of this internal audit project we are providing an overall assessment using our traditional internal controls model as well as performance auditing measures.

## **Internal Controls Assessment**

While some design issues were identified, none were regarded as significant design deficiencies. If implemented, these recommendations would serve to provide for greater efficiencies and better leveraging of its system capabilities rather than addressing major control deficiencies. Enwin Utilities has been following its plan to maintain its assets and track the costs involved in this process.

Based on the controls identified and tested, we have determined that there is reasonable evidence to indicate that:

	No or limited serpe improvement	No Major Concerns Noted	Cause for Concern	Cause for Considerable Concern
Controls over the process are designed in such a manner that there is:		<b>(</b>		
Sample tests indicated that process controls were operating such that there is:	<b>②</b>			

Management has provided comprehensive action plans, which we believe will address the deficiencies noted.

## **Performance-Based Audit Results**

These results are based solely on Hydro Distribution work orders and accounts. The scope of our review considered the period of November 1, 2014 through October 31, 2015. In this period, we considered project estimates applied for individual projects subsequent to the approval of the Enwin Utilities budget. These project estimates are based on the original Enwin Utilities budget, as well as information that has been gathered about the project such as previously unknown conditions of the area of the work to be performed, foreign exchange fluctuations, or in the case of outsourced projects, the value of the agreed tender value.

Performance objective 1: Overall projects are delivered within dollar values, effort hours and materials within 10% (over or under).

Assessment: Performance measure of +/- 10% is met. Actual results had an overall unfavourable variance of 6.3% to internal operational estimates. Capital projects contributed significantly to this variance as opposed to ongoing operations and maintenance.

Projects associated with operations and maintenance **met** the performance objective having a favourable variance of 5.52% to internal operational estimates in the scope period, or\$171,615.22.

Capital projects **met** the performance objective having an unfavourable variance of 9% to internal operating estimates in the scope period, or \$1,108,269. However, upon review of the data provided from SAP, some estimated amounts were not recorded on the work order in the system. The most common causes noted were (1) as noted in Finding 10 below, the planned and estimated costs fields were not used consistently, resulting in work order estimated amounts not being entered in the system; and (2) capital projects included emergency work for which work order-level estimated costs are not estimated as repairing the assets are an immediate priority.

Performance objective 2: Individual projects are delivered within dollar values, effort hours and materials within 10% (over or under)

Assessment: On an annual basis, Enwin Utilities develops both a capital and operating budget. During our review, it was learned that capital projects are given an estimate at the project level, however this is not done for operating expenses. Rather, estimates are handled at a "general ledger" level, whereby the costs are classified based on the account types as opposed to by work order. Therefore, we are unable to assess this performance objective for operating expenses. However, as noted below, this assessment can still be carried out for capital projects.

Capital projects did **not meet** the performance objective given that 28% of the projects in the period met the performance variance expectation. There were 176 capital projects noted. The projects outside the performance measure targets were comprised of 2% had no estimated amount, 36% exceeded the threshold and 34% came in below the threshold. It was noted that savings from projects whose estimates were not fully spent are applied to those that exceeded estimates.

Performance objective 3: Projects that exceed 10% variance threshold (over or under) have a variance analysis performed.

Assessment: Performance measure of projects exceeding 10% variance threshold having a variance analysis performed is **not met.** Per review of 104 projects for which a variance analysis would be required, a variance analysis was performed in 25 situations. This result is further discussed in finding #1 below.

Performance objective 4: Preventable asset breakdowns represent less than or equal to 10% of all breakdowns.

Assessment: Performance measure of preventable asset breakdowns represent less than or equal to 10% of all breakdowns is met.

1,070 failures were noted in the year. 906 of these were either planned, uncontrollable by Enwin, or possibly preventable by Enwin representing 84.6%. While a further 129 did not have sufficient data to determine whether they were preventable or not, representing a further 12%.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 3 8 of 27

# Summary of Positive Themes

Greater than 50% of capital projects performed are done in-house with Enwin Utilities staff, allowing for a greater deal of flexibility in terms of allocating resources to different functions, as well as retaining the knowledge of performing these functions within the company. When an asset failure occurs, following its correction, information involving the failure is recorded, including what problem assets, as well as whether failures are caused by means that are beyond their control. This could lead to planned upgrades or repairs across the system for the asset type, or to provide the means to mitigate the risk of asset had failed, the date of the failure, as well as the cause. This allows Enwin Utilities the ability to identif future breakdowns of similar assets.

implementation. This is used in building logs of assets with a scoring mechanism to aid in determining how future An Asset Management Plan is in place which guides the next five years of asset repairs, maintenance and work is prioritized. Enwin Utilities has been focused on the capital side of the business and shown dedication in identifying its assets in need of repair or upgrade and carrying that out. With a focus on prioritizing these assets, Enwin Utilities has been able to deploy crews throughout the year in order to extend the useful life of its assets and provide continued service to its customers.

In terms of finding synergies and efficiencies between Enwin Utilities and WUC, there has been success in aligning processes and sharing of resources across the two business functions, specifically in relation to back office support, for example on work order generation, trouble calls, and work order close outs.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 3 9 of 27

## Summary of Findings

Finding	Tonie		Rating1		Management
#		Significant Moderate	Moderate	Low	Action
1	Requirement and Timing of Variance Reporting			×	
21	Kitting Process Delays		×		
3	Operations & Maintenance Performance Measures		×		
4	Failure Codes		×		
5	Duplication of Work Type Statuses		×		
9	Lack of Description in Work Order Details		×		
7	Operations & Maintenance Activities Scheduling Horizon		×		
œ	Work Order Results Review			×	
6	Root Cause Analysis Methodology		×		
10	Incomplete Work Order Forms			×	
Total Aud	Total Audit Findings	0	7	33	THE RESERVE OF

# Summary of Significant Findings

As noted above in the Summary of Audit Findings, Internal Audit did not classify any findings pertaining to Enwin Utilities as significant.

## Management Comments

Name: Victoria Zuber

Title: Vice President of Finance and CFO

Date: April 25, 2016

systems rather than address any major control deficiencies. Overall management is in agreement with the findings implemented, the recommendations will provide greater efficiency and better leveraging of our work management and for the most part was already aware of the noted issues. Current funding and limited resources have resulted in a focus on the higher risk areas and ensuring they are adequately addressed. The audit report clearly indicates It is important to note that PwC has indicated that none of the findings are regarded as significant and that if that management has done a good job in those areas.

# Detailed Observations

Finding	Rating <sup>1</sup>	Recommendation & Action Plan
1. Requirement and Timing of Operational Variance Reporting Observation  For all capital projects, it is the practice of Enwin Utilities to create a variance report for internal/operational purposes when the final spend varies from internal operational estimates by 10% (favourable or unfavourable, thus creating a 20% threshold). While it was observed that this is generally occurring at Enwin Utilities, it was noted that a formal procedure is not in place to govern when these would be required.  In a sample of ten capital projects, it was noted that in one instance, a variance report was not prepared despite being outside the 10% threshold from the estimated cost (the common threshold used).	Overall Low Impact Low	Recommendation  Management should draft a procedure document that clearly defines what circumstances would require the creation of an internal/operational variance report and stipulates clearly the intended outcomes and focus areas for that document. This policy then should be introduced to all relevant stakeholders within the organization. The focus of variance reports should be to identify opportunities to lessen the risk of significant variances. The financial performance of projects should be reviewed by an appropriate level of
Implication Operational variance reporting may not occur in a timely manner to enable prompt learns and loss avoidance or optimization.	Likelihood	management to determine whether the policy is being complied with.  Management Action Plan Management agrees with the finding. Our internal checklist will be updated to include the requirement to create a variance report if the threshold exceeds 10%. Periodic internal reviews will be held to ensure compliance. Enwin will document a standardized formal process for completing internal variance reports for all capital project work for all companies. Periodic internal compliance will be monitored by Engineering and Finance.
Root Cause Timeliness and compliance requirement not formally defined and implemented.		Responsibility Director Hydro Engineering  Due Date July 2016

<sup>1</sup> See Appendix B for Basis of Finding Rating and Report Classification PricewaterhouseCoopers LLP

Recommendation & Action Plan		Recommendation In conjunction with the recommendation in observation #7, schedules should be provided to those responsible for preparing kits in advance to reserve the appropriate tools for when they are needed using a "hard reserve" system where they cannot be checked	out by others until it is used by the intended crew. Thus, these will be prepared days ahead of the planned work, reducing idle time for crews. Further benefits will be derived from the ability to better predict the demand for parts and equipment, allowing a greater lead time for ordering further supplies from vendors.		next steps.  Responsibility  Director Hydro Operations	Due Date October 2016
Rating <sup>2</sup>		Overall  Moderate	Impact Medium	Likelihood	Likely	
Finding	2. Kitting Process Delays	Observation At the beginning of each work day, work crews meet in the garage of the Operations Center to review their daily assignments, as well as pick up whatever tools and equipment that will be necessary, or their "kits". It was noted that in the case of some capital projects, kits were prepared and contained in a locked container for crews to pick up. However, it	was noted that the kitting for many O&M projects were not ready at the beginning of the work day, and were picked up later in the work day, causing delays in crews heading to their job sites, delaying their ability to be productive during their shift.		Implication  This limits the visibility in the system in terms of what parts are available, even if they are sitting in a container and may not be used for a long period of time, potentially resulting in an inefficient use of resources and dollars. Furthermore, as kits are not prepared at the start of the day, it results in idle time for crews as they await the preparation of their kits.	Root Cause  The scheduling horizon for crews is only one week, and kits are not prepared for crews on a timely basis.

Recommendation & Action Plan	Recommendation  Management should consider determining the key performance indicators based on strategic and short-term targets, for which they could be provided with real-time progress. The SAP data structure could then be revised to provide reports capable of these figures at	a more detailed level to provide further diagnostic information in determining the root cause of poor performing KPI, as well as what is leading to the strong performance of high-scoring KPI.	Management Action Plan Management agrees with the finding. The current report used by the Hydro Supervisors, is generated to	evaluate volume of work orders closed at a high level.  The report achieves this intended outcome.  Management will review cost/benefit analysis of including additional detailed information to determine next steps.	Responsibility	Director Hydro Operations Director Information Technology  Due Date October 2016
Rating3	Overall Moderate	Impact Medium	Likelihood	Likely		
Finding  3. Operations & Maintenance Performance Measures	Observation A report titled Organizational Compliance, which identifies overall compliance to on-time work order delivery, work order count and Labmat % variance was noted, which provides real-time KPIs. However, this report provides a view of grand totals and does not provide work order detail. It only shows a percentage relative to the overall total and	does not provide a capability of a drill down function to find the detail. This report does not take into account the costs per labour and material separately and does not provide information if the issues are related to planned material vs. actual nor planned labour vs. actual. The information does not provide the details on where improvements are	needed to adjust estimates per work order.	Implication  The way data is structured to capture costs only at higher levels makes it challenging and labour intensive to gain a granular view on the issues.		Root Cause System capabilities are not used to their full potential. Currently, data structure is focused on the project level for capital projects and the cost centers level for Operations & Maintenance, rather than the detailed work order level.

Recommendation & Action Plan	TIBLE I HOMATION HOMATION	Recommendation Failure codes should be applied to work orders within SAP to allow for a greater level of analysis in understanding the cause for failures, as well as what can be done to lessen the risk of recurrence with other assets.	Management Action Plan Management agrees with the finding. Outages are		requirements. Equipment failures represent approx. 20% of outages. Further cost/benefit analysis will be completed to determine next steps.	Responsibility Director Hydro Infrastructure	Due Date October 2016
Rating4		Overall Low	Impact Low	Likelihood	Likely		
Finding	4. Failure Codes	Observation  The outage report from the hydro side focuses on the requirements of reporting outages to the Ontario Energy Board (OEB). This report fulfils OEB requirements, but can be used further to assist in understanding the reasons why outages occur and what can be done to prevent those types of outages in the future.			Implication  By focusing only on reporting outages to the OEB in order to fulfil compliance requirements, Enwin loses out on the possibility of learning	new information to improve its practices to either better handle future failures or identify means to lessen the likelihood of recurrence.	Root Cause Structured approach for collection and utilization of data are limited in regards to improving work management processes.

Rating <sup>5</sup> Recommendation & Action Plan	Recomer  Data stru being set work ord simpler t estimate also enab and dash their stra benefits 1 costs to it analysis i	Management Action Plan  Management agrees with the finding. Cost/benefit analysis will be completed and analyzed to determine next steps.  Responsibility Director Information Technology  Due Date	October 2016
inding	t from Enwin Utilities, WUC functions. Work order types Itilities and WUC from a cost ocated to cost centres or orders. As a result, Internal ata as a part of its analysis as ared.	Implication  The current data structure limits the potential reporting of detailed actual vs budget/estimated costs, preventing a system analysis of these figures at the asset or work order level, creating a challenge to determine the effort and true cost involved at these levels.  Root Cause  Implementation data structure definitions possibly lacked detail on how operations should use the data and information derived from the data,	for example to compare actual and planned costs

ing7 Recommendation & Action Plan			rate Management should consider implementing the SAP system components needed to gain visibility into workforce availability by one and also workforce availability by one and	level of detail of hours by craft needed to consider a longer scheduling horizon. Management should focus		management could provide a 3 month projected work load for its crews, with a one-week commitment plan.	Management Action Plan	Management agrees with the finding. Cost/benefit analysis will be completed and analyzed to determine			Responsibility	Director Hydro Operations Director Hydro Infrastructure	Due Date October 2016
Rating <sup>7</sup>		Overall	Moderate		Impact Medium			Likelil	Likely				
Finding	7. O&M Activities Scheduling Horizon	Observation	Operation & Maintenance activities are planned one week at a time, providing a list of scheduled activities to the crews. While the plan needs to be adjusted due to unforeseen and unpredictable equipment failures.	as many O&M projects are less than one week in length, one week of scheduling creates constraints in terms of scheduling their staff and	ensuring they have appropriate supplies on hand when they are needed.				Implication  Ry using such a short horizon Trunin is less canable to realize notential	efficiency gains and would be less capable to provide projects with the	right stan at the right time.	Root Cause The current system visibility into available workforce does not consider	activities beyond the current week. A further limitation is caused by the visibility into work order loading by craft from the backlog.

Finding	Ratings	Recommendation & Action Dlan
8. Work Order Results Review	o	A STATE OF THE STA
Observation	Overall	Recommendation
Upon closing a work order, there was little evidence of reporting back on what specifically was done, how it was done, why it was done and that information being used to improve upon the work in the future, i.e. for time based repetitive work orders.	Low	Following the closure of a work order, a report should be completed within SAP which outlines the work performed, the cause for the work to be carried out, and what can be done in the future to improve on the process to allow Frazin to realize retential efficiential
	Impact Low	These efficiencies should be considered to update standard procedures provided in work order details in conjunction with observation #6.
		Management Action Plan Management agrees with the finding. Costs are
Implication	Likely	work orders, opportunities for improvements will be
When information is not reviewed from the execution of time based maintenance activities, there are lost opportunities to develop more efficient and effective practices when similar work is later planned,		emphasized in the standardized cost variance procedure (finding #1). Cost/benefit analysis will be completed and analyzed to determine next steps.
preventing the knowledge from being shared with the organization.	_	Responsibility Director Hydro Operations
Root Cause Failure codes and improvement processes from failure and reporting are not in place.		Due Date October 2016

Finding	Rating9	Recommendation & Action Plan
9. Root Cause Analysis Methodology		
Observation	Overall	Recommendation
PwC noted that Corrective Preventive Action Forms are in effect to	Moderate	Management should review various root cause analysis
some exploration into actual root causes is carried out, a formalized		methodologies, such as the "5 Why" method, the Fishbone method. TanRoot or Anollo method. 35
methodology is not in place.		examples. Upon deciding which is most appropriate for its business needs, this should be implemented
Samples of Corrective Preventive Action Forms were reviewed and hydro does analyse circumstances of significant outages on the hydro side	Impact Medium	followed by training to appropriate staff members to
They do suggest root causes of failures but do not seem to follow a root cause methodology, for example: a "5 Why" method, a Fishbone method.		improvements.
TapRoot method, Apollo method or other similar methodologies.	ı	Management Action Plan
		Management agrees with the finding. Management
	Likelihood	will review various root cause analysis methodologies
Implication	Likely	and will select one to be used throughout the
Without an approved methodology to uncover the root cause of asset		organization. Procedures will be updated and training provided.
industry practice or more current techniques. This in turn could lead to		
inappropriate or incomplete root cause conclusions, preventing Enwin		Responsibility
from fully learning from past mistakes.		Director Hydro Operations
Root Cause analysis methodologies have not been reviewed and taught to staff.		Due Date
		September 2016

Finding	Rating <sup>10</sup>	Recommendation & Action Plan
10. Incomplete Work Order Forms		
-	Overall	Recommendation
During the data analysis of capital project work orders, it was noted that in some cases, the Planned Cost (original budget amount) and Estimated	Low	Further training should be provided to stakeholders and work order preparers in regards to the recording of
Cost (and revised engineering estimate) fields are used inconsistently in		the various Estimated and Planned cost element fields
SAP. While these costs are always determined ahead of the execution of		within SAP. A further emphasis should be provided on
work, they are not always stored in a consistent field in SAP.		explaining the importance of recording these values.
	Impact	
	Low	Upon the creation of any work orders, it should be
		required that these fields be populated prior to
	!	approval.
		Management Action Plan
		Management agrees with the finding. Management
	Likelihood	will prepare training for appropriate staff to ensure the
Implication	Likely	proper use of planned/estimated costs for all capital
Standard reporting will not always be correct as standard reports pull	- · · ·	projects. Management will review the cost/benefit of
from specific fields. This will make the comparison of Planned vs. Actual		utilizing the Investment Module within SAP in
costs incorrect in some cases and perhaps even generate a variance		conjunction with corporate priorities and projects.
report without true cause.		
		<b>Kesponsibility</b> Director Information Technology
Root Cause		
Planned and estimate costs have not always been allocated to the right fields in SAP.		Due Date
		September 2016

## Considerations for Improvement

There was one additional considerations for improvement noted as follows:

## Mobile tablet usage for work execution support.

Mobile tablets are used in a limited way to gather information in the field. These tablets have the potential to lessen the amount of paperwork involved and provide field employees with direct access to various information related to their work. These tablets can also enable data collection for reporting of work, allocation of hours related to the work, selecting the failure codes, getting geographical information, and more.

It is highly recommended that Enwin continue with the wider implementation of these mobile tablets as they can increase efficiency and quality of information to the work in the field as well as the reporting of work and data collection.

## Appendix A: Background & Scope

## Linkage to the internal audit plan

As part of the Council approved revised 2015/16 Internal Audit Plan, Internal Audit performed a Performance-Based audit involving areas of asset management at Enwin Utilities, and the associated processes and controls involved in those areas.

## Scope

## Overview of the business/process to be reviewed

As part of internal audit of the business processes and controls in effect for managing infrastructure, Internal Audit considered:

- 1. Work Planning
- 2. Work Scheduling and Assigning
- 3. Work Execution and Close Out
- 4. Unplanned Work
- 5. Work Management Performance Measures

Key work management processes that were considered as part of this engagement include:

- Work Planning
  - Identifying and specifying work to be performed;
  - Work prioritization and approval; and
  - Identifying resources required and arranging for resources to be available.
- Work Scheduling and Assigning
  - Schedule funnel, and application of priorities and other criteria used in scheduling; and
  - Work assignment.
- Work Execution and Close Out
  - Feedback provided for analysis and performance improvement.
- Unplanned Work
  - Emergency and other unplanned work performed.
- Work Management Performance Measures
  - Measures used and what decisions do they drive.

As part of this engagement, two conclusions were formed. The first pertains to the attainment of the objectives set out in the Scope Memo dated November 11, 2015. Also provided are risk & control conclusions involving the design and operating effectiveness of controls surrounding the objectives set out.

Our scope period covered November 1, 2014 - October 31, 2015.

## Specific Scope Considerations

While our engagement involved the analysis of financial information and accounting records, it does not constitute an audit or an audit related service in accordance with Canadian generally accepted accounting standards, and accordingly no such assurance is provided in our report.

PwC 17

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 1 - SEC - 7 - Attachment 3 22 of 27

Consistent with commonly accepted practices, our work was dependent on the following management activities which were excluded from the scope of this review:

- 1. The effective design, implementation and operation of the Information and Technology (IT) environment and IT general controls.
- 2. The effective design, implementation and operation of business system and application controls related to the capture, processing, storage, reporting/presentation and exporting of information and data.
- 3. Controls over the completeness, accuracy, reliability and validity of the evidence, information and data provided by management during the course of this review.

## Appendix B: Basis of Finding Rating and Report Classification

## **Findings Rating Matrix**

Audit Fi	indings		Impact			
Rating		Low	Medium	High		
70	Highly Likely	Moderate	Significant	Significant		
Likelihood	Likely	Low	Moderate	Significant		
	Unlikely	Low	Low	Moderate		

## **Likelihood Consideration**

Rating	Description
Highly Likely	<ul> <li>History of regular occurrence of the event.</li> <li>The event is expected to occur in most circumstances.</li> </ul>
Likely	<ul> <li>History of occasional occurrence of the event.</li> <li>The event could occur at some time.</li> </ul>
Unlikely	<ul> <li>History of no or seldom occurrence of the event.</li> <li>The event may occur only in exceptional circumstances.</li> </ul>

## **Impact Consideration**

Rating	Basis	Description							
	Dollar Value <sup>11</sup>	Financial impact likely to exceed \$250,000 in terms of direct loss or							
		opportunity cost.							
	Judgemental	Internal Control							
	Assessment	Significant control weaknesses, which would lead to financial or fraud loss.							
		An issue that requires a significant amount of senior							
		management/Board effort to manage such as:							
HIGH		<ul> <li>Failure to meet key strategic objectives/major impact on strategy and objectives.</li> </ul>							
		Loss of ability to sustain ongoing operations:							
		- Loss of key competitive advantage / opportunity							
		- Loss of supply of key process inputs							
		A major reputational sensitivity e.g., Market share, earnings per share,							
		credibility with stakeholders and brand name/reputation building.							
		Legal / Regulatory							
		Large scale action, major breach of legislation with very significant financial or							
		reputational consequences.							
	Dollar Value	Financial impact likely to be between \$75,000 to \$250,000 in terms of direct							
		loss or opportunity cost.							
	Judgemental	Internal Control							
	Assessment	Control weaknesses, which could result in potential loss resulting from							
		inefficiencies, wastage, and cumbersome workflow procedures.							
MEDIUM		An issue that requires some amount of senior management/Board							
		effort to manage such as:							
		No material or moderate impact on strategy and objectives.							
		Disruption to normal operation with a limited effect on achievement of							
		corporate strategy and objectives							
		Moderate reputational sensitivity.							
		r 1/p 1.							
		Legal / Regulatory							
	Dollar Value	Regulatory breach with material financial consequences including fines.							
	Dollar value	Financial impact likely to be less than \$75,000 in terms of direct loss or							
	To deconomical	opportunity cost.							
	Judgemental	Internal Control							
	Assessment	Control weaknesses, which could result in potential insignificant loss resulting							
		from workflow and operational inefficiencies.							
		An issue that requires no or minimal amount of senior							
I.OW		management/Board effort to manage such as:							
		Minimal impact on strategy							
		Disruption to normal operations with no effect on achievement of							
		corporate strategy and objectives							
		Minimal reputational sensitivity.							
		·							
		Legal / Regulatory							
		Regulatory breach with minimal consequences.							

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 $<sup>^{\</sup>rm 11}$  Dollar value amounts are agreed with the client prior to execution of fieldwork.

## **Audit Report Classification**

Report Classification	The internal audit identified one or more of the following:
Cause for considerable concern	<ul> <li>Significant control design improvements identified to ensure that risk of material loss is minimized and functional objectives are met.</li> <li>An unacceptable number of controls (including a selection of both significant and minor) identified as not operating for which sufficient mitigating back-up controls could not be identified.</li> <li>Material losses have occurred as a result of control environment deficiencies.</li> <li>Instances of fraud or significant contravention of corporate policy detected.</li> <li>No action taken on previous significant audit findings to resolve the item on a timely basis.</li> </ul>
Cause for concern	<ul> <li>Control design improvements identified to ensure that risk of material loss is minimized and functional objectives are met.</li> <li>A number of significant controls identified as not operating for which sufficient mitigating back-up controls could not be identified.</li> <li>Losses have occurred as a result of control environment deficiencies.</li> <li>Little action taken on previous significant audit findings to resolve the item on a timely basis.</li> </ul>
No major concerns noted	<ul> <li>Control design improvements identified, however, the risk of loss is immaterial.</li> <li>Isolated or "one-off" significant controls identified as not operating for which sufficient mitigating back-up controls could not be identified.</li> <li>Numerous instances of minor controls not operating for which sufficient mitigating back-up controls could not be identified.</li> <li>Some previous significant audit action items have not been resolved on a timely basis.</li> </ul>
No or limited scope for improvement	<ul> <li>No control design improvements identified.</li> <li>Only minor instances of controls identified as not operating which have mitigating back-up controls, or the risk of loss is immaterial.</li> <li>All previous significant audit action items have been closed.</li> </ul>

## Appendix C: Outage Analysis

## Outage report analysis - Enwin Utilities

The outage report was reviewed and analysed with a focus on if outages could have been prevented with predictive measures, such as monitoring of loading trends, thermal analysis, etc.

It should be noted that predictive measures, even if identified below, are not a guarantee for preventing failures. For that to occur, the predictive measures need to be applied in the right way at the right time. For example if a thermal analysis is made once per year and the failure develops over a shorter time period than a year, it might go undetected.

Below are two tables. The first table shows the count of outages in the scope period at Enwin. It is classified below on the vertical axis by what, if anything, could be done to prevent the outage. The horizontal axis classifies if it is possibly preventable, or not, etc. The second table shows the hours of outages from the same perspective as the first table.

Count of Type	Inconclusive	Bypass feed	Not known	Locate	Load trend	Inspection	Un- preventable	N/A	Thermal	Training	Grand Total
Not known	73	2	31		15	5	3				129
Planned								371			371
Preventable						35					35
Possibly Preventable	228	4		1	4	4	81		30	7	359
Uncontrollable by Enwin	15					2	159				176
Grand Total #	316	6	31	1	19	46	243	371	30	7	1070
Grand Total %	30%	1%	3%	0%	2%	4%	23%	35%	3%	1%	100%

PwC

Customer hours lost	Inconclusive	Bypass feed	Not known	Locate	Load trend	Inspection	Un- preventable	N/A	Thermal	Training	Grand Total
Not known	1,613.1	92.9			499.8	44.1	-		1		2,249.9
Planned								22,484.3			22,484.3
Preventable						5,601.8	a jul	14.3			5,601.7
Possibly Preventable	16,668.1	104.0		14	25.6	787.5	14,271.7		525.6	3.290.8	35.674.7
Uncontrollable by Enwin	476.87					88.2	14,905.5		119:0		15,589.6
Grand Total hrs	18,758.1	196.9		1.4	525-4	6,521.4	29,177.2	22,484.3	644.6	3,290.8	81,600.3
Grand Total %	23%	0%	0%	0%	1%	8%	36%	28%	1%	4%	100%

From the analysis above, looking at customer hours lost, the un-preventable category is the highest. The second category are the planned outages. The third, at 23%, was inconclusive from the description if it was preventable or not, this is primarily because the descriptions did not focus on the "why". The "why" of outages are very important from a continual improvement perspective to understand what can be implemented to prevent another outage of that type.

The conclusion of this analysis suggests that implementing a failure code definition as well as a structured root cause analysis approach, for example the "5 Why's", would help Enwin to improve in this area.



EB-2019-0032

Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 8

Page **1** of **1** 

2 - SEC - 8

Reference:

Exhibit 2

**Question:** 

Please provide add a column to appendix 2-AA to show 2019 year-to-date actuals.

## Response:

ENWIN has added a column to appendix 2-AA to show 2019 year-to-date actuals as of June 30, 2019. Please see SEC 8 - Attachment 1.

Attachment 1: Appendix 2-AA revised to include 06-30-2019 year-to-date actuals.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 2 - SEC - 8 - Attachment 1 1 of 1

## Appendix 2-AA Capital Projects Table

						Actuals						Bud	get
Projects	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019 YTD	2019 Bridge Year	2020 Test Year
Reporting Basis	CGAAP	CGAAP	CGAAP	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS	MIFRS
System Access													
New customer connections	834,544	755,878	793,242	902,673	1,505,019	1,060,705	1,541,629	1,988,830	1,733,481	1,615,000	906,000	1,275,000	1,060,500
Externally driven projects	532,355	867,290	686,367	3,626,247	2,467,742	2,506,205	842,109	1,497,182	1,649,163	1,225,000	95,000	5,586,000	4,250,000
New metering services	240,721	6,819,988	3,619,122	1,341,228	930,545	795,630	378,378	459,611	580,797	470,000	168,000	406,000	417,000
Sub-Total	1,607,620	8,443,156	5,098,731	5,870,148	4,903,306	4,362,540	2,762,116	3,945,623	3,963,441	3,310,000	1,169,000	7,267,000	5,727,500
System Renewal													
Conversion programs	5,239,546	5,283,768	5,453,919	4,213,450	4,046,514	2,650,127	221,574	28,193	_	-	-	-	-
Sustainment programs	2,353,279	1,637,539	1,898,301	3,282,212	3,965,485	3,939,196	6,483,231	4,586,933	4,304,880	4,635,295	3,470,000	6,085,000	7,552,000
Metering programs	88,732	-	-	-, - ,	-	-	-	124,580	66,695	523,250	302,000	779,000	813,000
S.A.M Station Sustainment	166,754	-	-	-	-	85,627	1,181,674	475,149	736,144	427,658	193,000	425,000	75,000
Sub-Total	7,848,312	6,921,307	7,352,220	7,495,662	8,011,999	6,674,950	7,886,479	5,214,855	5,107,719	5,586,203	3,965,000	7,289,000	8,440,000
System Service													
Enhancement projects	140,299	_	274,478	829,729	1,323,731	2,788,900	6,117,981	2,281,610	3,644,473	4,086,895	447,000	3,576,000	3,549,000
SCADA	112,704	25,783	403,831	207,581	86,321	82,358	206,403	2,281,010	436,320	240,000	476,000	595,000	265,000
S.A.M Station Enhancements	-	-	48,324	19,174	8,560	-	443,129	698,102	242,744	100,000	1,000	50,000	200,000
Sub-Total	253,003	25,783	726,633	1,056,484	1,418,612	2,871,258	6,767,513	3,191,199	4,323,537	4,426,895	924,000	4,221,000	4,014,000
			,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,	_,-,-,	-,,	-,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,	,	.,,	,,,,,,,,,,
General Plant													
Building	515,522	581,138	470,405	504,553	194,885	574,788	357,412	191,140	351,588	354,000	78,000	2,592,330	1,521,000
Information Technology	7,135,713	8,741,067	3,062,904	1,957,935	4,209,952	4,125,004	2,991,333	1,844,987	1,387,208	1,733,000	442,000	2,005,400	1,719,000
Fleet & Welding	213,097	25,900	41,157	56,098	32,204	40,909	30,102	81,999	87,479	87,500	-	70,500	74,500
Tools	202,244	105,287	150,221	141,802	242,892	144,424	119,993	135,286	231,272	90,000	19,000	187,000	102,000
Sub-Total	8,066,576	9,453,392	3,724,687	2,660,388	4,679,933	4,885,125	3,498,840	2,253,412	2,057,547	2,264,500	539,000	4,855,230	3,416,500
Miscellaneous	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	17.775.511	24.843.638	16,902,271	17.082.682	19.013.849	18,793,873	20,914,948	14,605,089	15.452.244	15,587,598	6,597,000	23.632.230	21,598,000
Total	11,113,311	24,043,030	10,302,271	11,002,002	13,013,043	10,133,013	20,314,340	14,003,003	13,432,244	13,307,330	0,397,000	23,032,230	21,330,000
Vehicles	-		-	-	_	_	-	_	-	833,547	181,000	2,652,178	1,604,576
Customer Contributions	(520,301)	(224,159)	(321,196)	(1,495,683)	(757,276)	(2,403,163)	(4,322,469)	(411,579)	(2,216,539)	(1,888,586)	(485,000)	(4,898,000)	(3,251,860)
	, , , ,	, , , , , ,	, , ,	. , , , , ,	, ,	. , , , , , ,	. , , , , , ,	, , , , ,		. , , , , , , ,	, , , , ,	. , , , , , , , ,	. , , , , ,
Grand Total	17,255,209	24,619,479	16,581,075	15,586,999	18,256,573	16,390,710	16,592,479	14,193,510	13,235,705	14,532,559	6,293,000	21,386,408	19,950,716



EB-2019-0032

Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 9

Page **1** of **1** 

2 - SEC - 9

Reference:

Exhibit 2

Question:

Please provide a table that shows all material capital projects undertaken by the Applicant since 2009, that shows i) the original budget for the project, ii) the final budget for the project, iii) explanation of any variance +/- 5%.

## Response:

ENWIN's practise is to complete variance reports for projects where actual spend is >+/-10% from budget/estimate and the variance is >\$5,000. The reports receive various levels of sign-off depending on the quantum of the variance. ENWIN has a file that goes from approximately 2016 to 2018 which contains approximately 370 separate variance reports. Prior to 2016, the variance reports were signed off and filed in individual project files, many of which have now been transferred to records retention and are not easily accessible.

ENWIN has appended SEC 9 - Attachment 1, which is a table showing the material projects from 2016-2018 where the project variance exceeded 10% and \$5,000. The attachment also includes copies of the signed variance explanations for each project.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 2 - SEC - 9 - Attachment 1 1 of 10

Year	Project Number	WO#	Name	Total Estimate	Total Actual	Total Variance	Total % Var.
2016	HE.0056	22014014	COLLEGE SU'S - U/G MAIN	\$912,940	\$1,013,602	\$100,662	11.03%
2018	HN.0735	22017109	CABANA PH 2 (Howard - Dougall) - MAIN	\$543,322	\$423,595	-\$119,727	-22.04%
2017	HE.0066	22015124	55M3 CABLE UPGRADE WALKER TS1 - OH MAIN	\$337,484	\$238,687	-\$98,797	-29.27%
2016	HS.0200	22012563	PR48 - MAIN	\$325,495	\$393,355	\$67,860	20.85%
2016	HS.0259	22014985	McDougall SU Replacement Project - 25M8 & 25M12	\$302,155	\$374,530	\$72,375	23.95%
2017	HE.0055	22014638	GM MTS 4M1 FEEDER - MAIN	\$286,556	\$387,158	\$100,602	35.11%
2016	HS.0190	22014245	PR12 POLE REPLACEMENT - HS.0190 - MAIN	\$256,776	\$371,382	\$114,606	44.63%
2017	HN.0653		58 Park- U OF W- OH/UG RELOCATION- CABLE	\$256,082	\$337,982	\$81,900	31.98%
2016	HR.2015-140048	22010164	S/L POLE REPLACEMENTS - E.C.ROW STEEL	\$244,220	\$291,629	\$47,409	19.41%

## EB-2019-0032 Filed: August 1, 2019 COST VARIANCE REPORT - PLEASE LINK TO WORK ORD ERROGATORIES from SEC

			2 - SEC - 9 - Attachment 1			
WO # - DESC.	WO # 22014014 - COLLEG	E SU's - U/G MAIN	2 of 10			
	PROJECT SCC	PE SUMMARY				
ORI	GINAL SCOPE	AS CONSTRUCTED				
Install 750MCM cable	through existing ducts to 2 new	Window orientation cha	inged in MH436 and at SU			
SU's. Install 4/0 CU ca	able as the neutral for the	foundations. Grounded	25M5 and 25M7 West in			
27.6kV circuits.		MH436.				

COST SUMMARY							
COST CATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	RECOMMENDATION	
LABOUR	\$157,617	\$196,330	\$38,713	24.6%	10.00%	Add macro in CU for	
VARIANCE ANALYSIS						terminating in switching	
Between track and field events in						units or add labour and	
convocation, and the arrival SU's job to meet the University of Wind						trucking manually based	
Icables at the SU.	1501 5 5110100W	n. Also, there	is no macro in	CO for termi	naung	on the supervisor	
	·					recommendation.	
MATERIAL	\$150,498	\$709,251	\$558,752	371.3%	10.00%		
VARIANCE ANALYSIS							
Actual costs of SU's came in unde				lbow kits we	re added	Add dead break elbow kits	
into the work order manually. See	e detailed mate	enal variance r	ероп.			in CU.	
					T		
TOOLS	\$22,090	\$19,317	(\$2,773)	-12.6%	10.00%		
VARIANCE ANALYSIS							
More men than trucks on site.						Nothing to be done.	
						3 10 10 10 10 10	
	0500 705	200 704	(0.40.4.00.4)	04.004	40.000		
SERVICE	\$582,735	\$88,704	(\$494,031)	-84.8%	10.00%		
VARIANCE ANALYSIS		0.001					
Costs of SU's captured under sen	vices (\$494,84	0.00)				N/A	
TOTAL	\$912,940	\$1,013,601	\$100,661	11.0%	10.00%		
VARIANCE ANALYSIS	00112	77,010,001	<b>\$100,00</b> 1	111070	7010070		
See Variance analysis above.						See recommendation's	
					:	above.	
						Further 28 2016-12-09	
TECHNOLOGI	TECHNOLOGIST/ENGINEER , SIGNATURE						
Anthony	Anthony Astrologo Anthony Astrologo Nov 28/16						
				1			

	SIG	N OFF F	OR PROJECTS WITH GRE	ATER THAN 10% VARIANCE (TOTA	AL)			
ESTIMATE / ACTUAL		TUAL	SIGNOR	SIGNATURE	DATE			
U	p to \$5,00	00	\	/ariance report not required				
		>\$5k	Engineering Manager	Extere Catourum	Dec 9/16			
>\$150K	>\$50k		Director Engineering	,				
- 41501			Director Distribution					
			VP Asset Management					
			VP Operations					

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC

COST VARIANCE REPORT - PLEASE LINK TO WORK ORDER 3 of 10

WO # - DESC. 22017109 - CABANA PH 2	(HOWARD - DOUGALL) - MAIN WORK					
PROJECT SCOPE SUMMARY						
ORIGINAL SCOPE	AS CONSTRUCTED  ROAD WIDENING - INSTALLING NEW POLES AND CONDUCTORS FURTHER BACK FROM THE ROAD. REPLACING EXISTING POLES WITH CONCRETE POLES AND					
CONDUCTORS FURTHER BACK FROM THE ROAD. REPLACING EXISTING POLES WITH CONCRETE POLES AND	ROAD WIDENING - INSTALLING NEW POLES AND CONDUCTORS FURTHER BACK FROM THE ROAD. REPLACING EXISTING POLES WITH CONCRETE POLES AND DOUBLE CIRCUIT OF 795MCM					

DOUBLE CIRCUIT OF 795MCM  DOUBLE CIRCUIT OF 795MCM								
	COST SUMMARY							
COST C	ATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	RECOMMENDATION	
LABOU	R	\$261,615	\$170,505	(\$91,110)	-34.8%	10.00%		
	CE ANALYSIS							
As per the supervisor, extra hours were added to the cue for preliminary work to transfer the taps and transformers all to one circuit. Hours were also included for topping the concrete poles and meeting the 78 day deadline that we gave the city as a resonable timeline to complete construction. The labour cost of those extra hours is \$36,108.66 and was not needed for this project. Also, a crane was used to install the 60' poles and all the poles were installed in 2 days (16 poles). Crews were very efficient.							NONE	
MATERI	AL	\$176,775	\$183,290	\$6,515	3.7%	10.00%		
	CE ANALYSIS						NONE	
TOOLS		\$35,407	\$30,116	(\$5,291)	-14.9%	10.00%	1000 mark 1000 m	
Extra hou to labour	VARIANCE ANALYSIS  Extra hours added to work order for preliminary work wasn't needed for this project. Directly related to labour costs and explanation.						NONE	
SERVICE		\$69,525	\$39,684	(\$29,841)	-42.9%	10.00%		
VARIANCE ANALYSIS  Service costs allowed for barrel and sign rentals (\$10,400) which we did not end up needing.  Flaggers were enough to control traffic during construction. Construction was completed ahead of schedule so flagger costs were less then expected. Also tree trimming costs (\$3700) were not needed. Our crane actual cost was \$9156, less than the \$14400 that was estimated. Civil actual costs were \$1500 less than estimated because we didn't need to trench as far as originally expected.  Easment costs have not yet been included on the work order and that was estimated to be \$2500.					NONE			
TOTAL		\$543,322	\$423,595	(\$119,727)	-22.0%	10.00%		
	VARIANCE ANALYSIS Refer to comments above.					NONE		
	TECHNOLOGIS	ST/ENGINE	ER		SIGN	ATURE /	/ DATE	
	STACEY			th	WHI	LIN	0000 19-Dec-18	
	SIGNOFFE	R PROJEC	CTS WITH	GREATER T	HAN 10%	VARIANO	E (TOTAL)	
	MATE / ACTUAL	SIC	SNOR			ATURE	DATE	
U	p to \$5,000					t required		
>\$150K	>\$5k >\$50k	Director I Director	Engineering Engineering Distribution perations		Je Bo	Loura	Dec 19, 2018  Dec 21, 2019  Dec 21, 18	
Joto: Co	ny of the report sho						D. 1.00.0017	

Note: Copy of the report should be forwarded to Finance for all variances in excess of \$50k (the total % variance would need to be above 10% as well).

Revised: Sept 26, 2017

EB-2019-0032 Filed: August 1, 2019

Responses to Interrogatories from SEC

## COST VARIANCE REPORT - PLEASE LINK TO WORK ORDER 4 of 10

WO # - DESC.	VO # - DESC. 22015124 - 55M3 Overhead and Cable Upgrade at Walker TS1 - OH Main					
PROJECT SCOPE SUMMARY						
	AL SCOPE	AS CONSTRUCTED				
Install new poles and upgrade of 55M3.	onductor to 795 MCM on feeder					

			CO	ST SUMMA	RY	INCHES			
COST	ATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	REC	OMMENDATION	
LABOU	R	\$141,080	\$122,698	(\$18,382)	-13.0%	10.00%	<u> </u>	der in discussion alon	
VARIAN	ICE ANALYSIS		, , , , , , , , , , , , , , , , , , , ,	(+ , )	10.070	1 .0.0070		visor before design	
The labo worked	our cost was under but on it dead. The origina	dget because cre I plan did not incl	ws were able ude the isolat	to isolate all fee ion of all feeder	eders in the a s in the work	area and carea.	phase.		
MATERIAL \$76,578 \$88,952 \$12,374 16.2% 10.00%						Adjust CU to include 1192 MCM			
VARIAN	CE ANALYSIS		***************************************	+ 1.2.70.1	10.270	10.0070	component		
The mate	erial cost was over buo or.	dget because CU	did not accou	unt for material	required for <sup>·</sup>	1192 MCM			
TOOLS		\$19,876	\$21,417	\$1,540	7.7%	10.00%	no recomm	endations	
SERVICE	I	\$99,950	\$5,620	(\$94,330)	-94.4%	10.00%	no recomme	endations	
VARIANO	E ANALYSIS	7,55,55	441424	(401,000)	04.470	10.0070		STIGUTION IS	
project ar Hydro On	ce cost was under but nd not the work order. e invoice of \$69,761.9 would be -8.6% therefo	The actual cost fo 5. If the Hydro Or	or the services ne invoice wa	s would be \$75, s charged to the	382.95 if you	include			
TOTAL		\$337,484	\$238,686	(\$98,798)	98,798) -29.3%   10.00%  Inclu			nclude leader in discussion along	
The cost v	E ANALYSIS  was under budget becomere isolated and the ork order.	ause crews were cost for the Hydr	able to work o	on the feeders was charged dire	vhile all feed ectly to the p	ers in the	hase and a	sor before design djust CU to include components.	
	TECHNOLOG	SIST/ENGINE	ER		SIGN	ATURE	***	DATE	
TONY CINOLLI			1	<u> </u>		6	May 28 2018		
	SIGN OFF	FOR PROJEC	TS WITH	GREATER	HAN 10%	VARIAN	CE (TOTA	(L)	
	MATE / ACTUAL	SIG	NOR		SIGN	ATURE		DATE	
U	p to \$5,000			Variance	report no	t required			
	>\$5k	Manager	Engineerin	g 🗸	Lesses	Sarton	nen	May 31,2018	
\$150K	>\$50k	Director E	Engineering				· · · · · · · · · · · · · · · · · · ·	Julie 4 2018	
ΨΙΟΟΙΧ		Director !	Distribution	bution De la		2		Juni = 4/18.	
			erations		O			110.	

Note: Copy of the report should be forwarded to Finance for all variances in excess of \$50k (the total % variance would need to be above 10% as well).

Revised: Sept 26, 2017

EB-2019-0032
Filed: August 1, 2019
COST VARIANCE REPORT - PLEASE LINK TO WORKS OR DER gatories from SEC

		2 - SEC - 9 - Attachment 1
WO # 22012563	PR48 - MAIN	5 of 10
	OPE SUMMARY	
ORIO	SINAL SCOPE	AS CONSTRUCTED
		Work was tendered out. Black & Mcdonald removed
poles. Replace with hinew concrete poles		existing 556mcm prmary circuit and poles . Replaced with 2-795mcm parallel primary circuits on new poles
new concrete poles		with 2-795 mcm parallel phinary circuits on new poles

COST CATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	RECO	MMENDATION
LABOUR	\$148,069	\$0	(\$148,069)	-100.0%	10.00%		
VARIANCE ANALYSIS							
Most anning to design the	als O bitanton of	<i>.</i>	-il		<b>6</b> - 1		
Work contracted out to Bla	ck a Mcdonaid	a. Labour cos	sis captured uni	der services	Delow		
MATERIAL	\$134,837	\$151,173	\$16,336	12.1%	10.00%		
VARIANCE ANALYSIS			-				
Additional material was required		late installation nary circuit	n of second par	allel overhea	id 795mcm		
	þilli	iary circuit					
TOOLS	\$22,525	\$0	(\$22,525)	-100.0%	10.00%		***************************************
VARIANCE ANALYSIS							
Work contracted out to Blac	k & Mcdonald.	Trucking co	sts captured un	der services	below		
SERVICE	\$20,064	\$242,182	\$222,118	1107.0%	10.00%		
VARIANCE ANALYSIS		· · · · · · · · · · · · · · · · · ·					
Services work included conc	enta autina aka				d= =1. d1		
contractor. It was later decide							
	g costs are ca			THOUGHT OF			
TOTAL	\$325,495	\$393,355	\$67,860	20.8%	10.00%	1=>	A
VARIANCE ANALYSIS						173 W,3C	USSED, A
Initially Enwin was to perform the					circuit on	REVIEW/	USSED, A REUSPOSSS/ CUTSOF CUB
new concrete poles, however, parallel 795mcm overhead prin					a second	TO ELEN	CUTS OF CUB
contacted amount was slightly his	-					13 LIKELY	INORDER
to install the addition							Sel.
TECHNOLOGI	ST/ENGINE	EER		SIGI	NATURE		DATE
Jerry R	aniwsky						12-Oct-16
				The state of the s			

	SIG	N OFF	OR PROJECTS WITH GR	EATER THAN 10% VARIANCE (TO	TAL)		
ESTIM	IATE / AC	CTUAL	SIGNOR	SIGNATURE	DATE		
U	o to \$5,00	00		Variance report not required			
		>\$5k	Engineering Manager	Stave Rantonin	Oct. 13/16		
>\$150K	>\$50k		Director Engineering	in the	JMUT 2017		
7 4 1301			Director Distribution .	When his to	JAN \$/2017		
			VP Asset Management	Julian.	Oct 19/1c		
			VP Operations				

EB-2019-0032 Filed: August 1, 2019

# Responses to Interrogatories from SEC COST VARIANCE REPORT - PLEASE LINK TO WORK ORDER: -9 - Attachment 1

6 of 10

									6 of 10
WO # -	DESC.	22014985	- McDouga				/lcDougali	& Pitt St.	
			PROJEC'	TSCC	PE SU	JMMARY			
	ORIGINA	AL SCOPE						STRUCTE	
	switching units for M12 a								vith new primary cable
McDougall and Pitt St, were replaced with two refurbished T&B switching units. Small amount of primary cable was installed main manhole and the units that was no longer required.									
	i units. Small amount of the units so that the sys			thic	lmain m	annole and t	ine units that	was no long	ger required.
between	the units so that the sys	tem becomes	anii ai i	ulis			<u> </u>		
		والمرافيات			JMMAF				
COST CA	ATEGORY	ESTIMATE	ACTUAL	VAR	IANCE	%VAR	%TARGET		OMMENDATION
LABOUR	<u> </u>	\$57,008	\$94,773	\$37	,765	66.2%	10.00%		additional labour
	E ANALYSIS								I not have been ; however, the
	onal 200 man hours wer							-	hours should be
	ional time in labour was 2 network isolation that i								for in future estimates.
	at were required to be p							The numbe	r of splices that were
	es were also used on th							, .	be worked on for
on the do	wntown network occurre	ed during the ir	nplementatior	of the	switchin	g units; the f	ault caused		m the downtown
	man-hours to temporar								ould have been or, especially as there
	at were temporarily apar		There was a l	ot of ov	ertime a	ssociated w	ith the	were many.	
MATERIA	network isolation and r	\$232,834	\$264,489	<b>©</b> 21	,655	13.6%	10.00%		Il lugs and cable tags
	E ANALYSIS	ψ232,034	Ψ20 <del>1</del> , <del>1</del> 03	φυι	,000	10.070	10.0070		been added to the
	eal estimate for each swi	tching unit ind	icated \$104.0	nn: the	final hoo	ık value was	guoted at	original estir	mate; it would have
	with a resultant added o						h the work		It to assess the
	uded the replacement of						tit was		he ground grids in
	at the original ground gr						•		owever as they could ssed until the existing
	oles including tags for ea							units were li	
	with the lugs, and the ca ere not deemed adequa	_	brackets in ea	ich vaul	it were re	eplaced as ti	ne existing		
TOOLS	ere not deemed adequa	\$2,005	\$6,853	\$4,8	848	241.8%	10.00%		_
	E ANALYSIS	ΨΣ,000	ΨΟ,ΟΟΟ	Ψ 1 1	3.0	2111070	10.0070		
	ng on this job was unde	restimated and	d can attribute	d direct	ly to the	increase in	labour and		
	own network issues.								
SERVICE		\$10,308	\$8,415	(\$1,	893)	-18.4%	10.00%		
	E ANALYSIS	410,000	40,110	(4.)		, .			
	ervices were less then e	stimated to co	mplete this joi	b.					
			,						
TOTAL		\$302,155	\$374,530	\$72,	375	24.0%	10.00%		
	E ANALYSIS	ψουΣ, 100	407-1,000	Ψ. Ξ,	0.0	21.070	10.0070		ļ
	variances associated w	ith this work o	rder can be at	tributed	l to the a	dditional lab	our		1
	ed for due to unforesee								
	TECHNOLOGIS			T			NATURE		DATE
<del>-</del>	Marian			$\dashv$		buan			Aug 3 2017
	ifiai iaili	ie Delif			7/	mun'			
	OLON OFF F	ND DDO 15	OTO MUTEL	CDE		THAN 400	/ MADIAN	OF COT	T.N.
FOTIL	SIGN OFF FO			GKE	AIER			CELIOIA	
	MATE / ACTUAL	SI	GNOR				IATURE	<del></del>	DATE
U	p to \$5,000	·			- ( T - 7)	- A	ot required		, , , , ,
	>\$5k	Manager	Engineerin	ng	<u> </u>	12 CAY	moune	<u>~</u>	August 8, 2017
>\$150K	>\$50k	Director	Engineerin	g		LUA	7		AUGUST 9 2017
-φ10UN		Director	Distribution	n [	21/2	611,0012	_		enerist, 0/17
'			perations			15/1			17.08.10
	<u>l</u>	*11 0	Paradollo	Il.	<del>\'\'\'\'\'\'\'\'\'\'\'\'\'\'\'\'\'\'\'</del>	<del></del>		Revised	I: August 2, 2017
						_		I CONSCI	i. ragast z, zo i i

EB-2019-0032 Filed: August 1, 2019

## VARIANCE REPORT - PLEASE LINK TORASORIS ORDIGINATION SEC 2 - SEC - 9 - Attachment 1

WO#-DESC.

22014638 - GM MTS Feeder - Main Work Order

7 of 10

PROJECT SCOPE SUMMARY							
	AS CONSTRUCTED						
Provide labour, material and trucking to install 4M1 feeder and scada mate switches	See material variance analysis						

COST CATEGORY		CO	ST SUMMA	RY	A CHE STATE	Kalanda da d
COST CATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	RECOMMENDATION
LABOUR	\$103,089	\$167,196	\$64,107	62.2%	10.00%	Assign crew to the project during
VARIANCE ANALYSIS The majority of extra labour was cause resulted in the creation of a new crew that the creation of a new crew that the contract of the creation was also impacted by the frozen Another impact to labour was working labour associated with implementing materials.	the design phase to keep consistency through the project Limit apprentices assigned to a crew.					
MATERIAL	\$159,579	\$179,359	\$19,781	12.4%	10.00%	Update design guide to question
VARIANCE ANALYSIS Installed \$2,800 solid blade switch Installed new 55FT pole for scada Installed animal guards at both so Changed five 7FT cross arms to 9	a mate switch to ada mates tha	to simplify inst at were not inc	allation.		eards neally s in a new	solid blade switch requirements a riser or dip pole (first out of TS Update scada mate CU to incluanimal guards.
TOOLS	\$14,966	\$26,026	\$11,061	73.9%	10.00%	
See labour comments						None
		3				
SERVICE	\$8,922	\$14.577	\$5,655	63.4%	10.00%	
SERVICE  VARIANCE ANALYSIS  Rapid charged for extra labour be  Rapid charged extra to excavate f	cause the gro	und was froze	n.			None
VARIANCE ANALYSIS Rapid charged for extra labour be	cause the gro	und was froze	n.			None
VARIANCE ANALYSIS Rapid charged for extra labour be Rapid charged extra to excavate for the excavate for extra labour be Rapid charged extra to excavate for extra labour be Rapid charged extra to excavate for extra labour be Rapid charged extra l	cause the ground frozen ground \$286,555	s387,158	n. des so EnWin d	35.1%  specific in adi	10.00%	None
VARIANCE ANALYSIS Rapid charged for extra labour be Rapid charged extra to excavate for the excavate for extra labour be Rapid charged extra to excavate for extra labour be Rapid charged extra to excavate for extra labour be Rapid charged extra l	\$286,555  apprentices needs estimate er estimate	\$387,158  ce make to be of	\$100,603 2-up of liseusced	35.1% specific in adv	10.00%	None e decish review)

AR	RANGE	FOR SIG	N OFF FOR PROJECTS V	VITH GREATER THEN 10% VARIAN	ICE (TOTAL)			
JOE	B ESTIMA	ATE	SIGNOR	SIGNATURE	DATE			
U	o to \$5,00	00	Variance report not required					
		>\$5k	Manager Engineering	Xters Bartonen	2017-06-1			
>\$150K	>\$50k		Director Engineering	ace,	2017-06-1			
~ \$ 100K			Director Distribution	Legenarde	2017-06-11			
			VP Operations (	The state of the s	17.08.10			

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 2 - SEC - 9 - Attachment 1 8 of 10

### **COST VARIANCE REPORT - PLEASE LINK TO WORK ORDER**

<b>WO # - DESC.</b>   22014245	
ORIGINAL SCOPE	AS CONSTRUCTED
ELLIOTTE ST EAST OF CRAWFORD TS. ALLEY E.	ELLIOTTE ST EAST OF CRAWFORD TS - PLUS
OF JANETTE FROM ERIE TO WYANDOTTE POLE	25M10, 25M11 RECONFIGURATION.
REPLACEMENT	

ARIANCE ANALYSIS   \$158,413   \$73,024   85.5%   10.00%   ACCOUNT OUTAGES   ACCOUNT		t stage					profession and the second
VARIANCE ANALYSIS         25MM11 RECONFIGURATION TO ELIMINATE THE RADIAL FEEDS BOUNDED BY ELLIOT, WYANDOTTE, VICTORIA AND BRUCE, ONLY INCREASE OR 25MT1 RECONFIGURATION TO ELIMINATE THE RADIAL FEEDS BOUNDED BY ELLIOT, WYANDOTTE, VICTORIA AND BRUCE, ONLY INCREASE COMP.         25MM11 RECONFIG. COULD BE CHARGED TO ANOTHER WOW. INCREASE COMP.           INCREASE OF THE COMPLEXITY FACTOR FOR THE JUNCTION POLES AT STATIONS 12 813 TO TWO, \$26,579.17 EXTRA IN APPRENTICE COSTS.         \$154,606         \$177,281         \$22,675         \$14.7%         \$10.00%         YARIANCE ANALYSIS         FACTOR (STN#12,13)	COST CATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	<u> </u>
DID NOT ACCOUNT FOR OUTAGES OR 25M11 RECONFIGURATION TO ELIMINATE THE RADIAL FEEDS BOUNDED BY ELLIOT, WYANDOTTE, VICTORIA AND BRUCE, ONLY INCREASE OF THE COMPLEXITY FACTOR FOR THE JUNCTION POLES AT STATIONS 12 &13 TO TWO. \$26,579.17 EXTRA IN APPRENTICE COSTS.  MATERIAL \$154,606 \$177,281 \$22,675 \$14.7% \$10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  SERVICE \$4,212 \$5,142 \$930 \$22.1% \$10.00%  VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 \$44.6% \$10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	LABOUR	\$85,389	\$158,413	\$73,024	85.5%	10.00%	The state of the s
RADIAL FEEDS BOUNDED BY ELLIOT, WYANDOTTE, VICTORIA AND BRUCE. ONLY INCREASE THE COMPLEXITY FACTOR FOR THE JUNCTION POLES AT STATIONS 12 &13 TO TWO. \$26,579,17 EXTRA IN APPRENTICE COSTS.  MATERIAL \$154,606 \$177,281 \$22,675 14.7% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TOOLS \$12,569 \$30,546 \$17,977 143.0% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  SERVICE \$4,212 \$5,142 \$930 22.1% 10.00%  VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	VARIANCE ANALYSIS						
INCREASED THE COMPLEXITY FACTOR FOR THE JUNCTION POLES AT STATIONS 12 &13 TO TWO. \$26,579.17 EXTRA IN APPRENTICE COSTS.  MATERIAL \$154,606 \$177,281 \$22,675 14.7% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TOOLS \$12,569 \$30,546 \$17,977 143.0% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  SERVICE \$4,212 \$5,142 \$930 22.1% 10.00%  VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							The state of the s
TO TWO. \$26,579.17 EXTRA IN APPRENTICE COSTS.  MATERIAL \$154,606 \$177,281 \$22,675 14.7% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TOOLS \$12,569 \$30,546 \$17,977 143.0% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  SERVICE \$4,212 \$5,142 \$930 22.1% 10.00% ACCOUNT FOR CRANE VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE			•				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MATERIAL \$154,606 \$177,281 \$22,675 14.7% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  **TOOLS \$12,569 \$30,546 \$17,977 143.0% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  **SERVICE \$4,212 \$5,142 \$930 22.1% 10.00% ACCOUNT FOR CRANE COSTS  DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  **TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  **TOTAL \$256,776 \$371,382 \$1114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  **TECHNOLOGIST/ENGINEER SIGNATURE DATE				TION POLES A	T STATIONS	3 12 &13	FACTOR (STN#12,13)
VARIANCE ANALYSIS           PLEASE SEE ABOVE         \$12,569         \$30,546         \$17,977         143.0%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         \$4,212         \$5,142         \$930         22.1%         10.00%         ACCOUNT FOR CRANE           VARIANCE ANALYSIS         DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5         COSTS         COSTS           TOTAL         \$256,776         \$371,382         \$114,605         44.6%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         TECHNOLOGIST/ENGINEER         SIGNATURE         DATE	TO TWO. \$26,579.17 EXTRA IN	APPRENTICE	COSTS.				
TOOLS \$12,569 \$30,546 \$17,977 143.0% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  SERVICE \$4,212 \$5,142 \$930 22.1% 10.00% ACCOUNT FOR CRANE VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	MATERIAL	\$154,606	\$177,281	\$22,675	14.7%	10.00%	
TOOLS \$12,569 \$30,546 \$17,977 143.0% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  SERVICE \$4,212 \$5,142 \$930 22.1% 10.00% ACCOUNT FOR CRANE  VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	VARIANCE ANALYSIS						
VARIANCE ANALYSIS           PLEASE SEE ABOVE           SERVICE         \$4,212         \$5,142         \$930         22.1%         10.00%         ACCOUNT FOR CRANE           VARIANCE ANALYSIS         COSTS         COSTS         COSTS           TOTAL         \$256,776         \$371,382         \$114,605         44.6%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         SIGNATURE         DATE	PLEASE SEE ABOVE						
VARIANCE ANALYSIS           PLEASE SEE ABOVE           SERVICE         \$4,212         \$5,142         \$930         22.1%         10.00%         ACCOUNT FOR CRANE           VARIANCE ANALYSIS         COSTS         COSTS         COSTS           TOTAL         \$256,776         \$371,382         \$114,605         44.6%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         SIGNATURE         DATE							
VARIANCE ANALYSIS           PLEASE SEE ABOVE           SERVICE         \$4,212         \$5,142         \$930         22.1%         10.00%         ACCOUNT FOR CRANE           VARIANCE ANALYSIS         COSTS         COSTS         COSTS           TOTAL         \$256,776         \$371,382         \$114,605         44.6%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         SIGNATURE         DATE							
VARIANCE ANALYSIS           PLEASE SEE ABOVE           SERVICE         \$4,212         \$5,142         \$930         22.1%         10.00%         ACCOUNT FOR CRANE           VARIANCE ANALYSIS         COSTS         COSTS         COSTS           TOTAL         \$256,776         \$371,382         \$114,605         44.6%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         SIGNATURE         DATE							
VARIANCE ANALYSIS           PLEASE SEE ABOVE           SERVICE         \$4,212         \$5,142         \$930         22.1%         10.00%         ACCOUNT FOR CRANE           VARIANCE ANALYSIS         COSTS         COSTS         COSTS           TOTAL         \$256,776         \$371,382         \$114,605         44.6%         10.00%           VARIANCE ANALYSIS         PLEASE SEE ABOVE         SIGNATURE         DATE	TOOLS	\$12.560	\$30.546	\$17 977	143.0%	10.00%	
SERVICE		Ψ12,000	- ψου,υπο	Ψ11,071	170.070	10.0070	
SERVICE							
VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							
VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							
VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							
VARIANCE ANALYSIS DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5  TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE		10 10 10 10 10 10 10 10 10 10 10 10 10 1		4000	00.40/	40.000/	ACCOUNT FOR ORANG
DID NOT ACCOUNT FOR JAKE'S CRANE SERVICE - \$1,237.5    TOTAL		\$4,212	\$5,142	\$930	22.1%	10.00%	• AND THE PROPERTY OF THE P
TOTAL \$256,776 \$371,382 \$114,605 44.6% 10.00%  VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							COSIS
VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	DID NOT ACCOUNT FOR JAKE'S	S CRANE SEF	RVICE - \$1,23	37.5			
VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							
VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE							[ : : : : : : : : : : : : : : : : : : :
VARIANCE ANALYSIS PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE			>	*			
PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	TOTAL	\$256,776	\$371,382	\$114,605	44.6%	10.00%	
PLEASE SEE ABOVE  TECHNOLOGIST/ENGINEER SIGNATURE DATE	VARIANCE ANALYSIS						[불발로 기급명 그림 글길 함당
	PLEASE SEE ABOVE						
Robert Richardson 20-Sep-17	TECHNOLOGI	ST/ENGINE	ER		SIGN	NATURE	DATE
	Robert RI	chardson					20-Sep-17

			1915 4218 481 (485 AVIII 1 A 1 A 1	# \$4 1. \$ (27.3.2 \$ 6 V.\$ 72.4 47.3) (8 - \$4 (28 8	ja semanan		
ESTIM	ESTIMATE / ACTUAL		SIGNOR	SIGNATURE	DATE		
U	p to \$5,00	00		Variance report not required			
		>\$5k	Engineering Manager	Iter Rantouna	Sept. 28,2017		
>\$150K	>\$50k		Director Engineering				
- W 100K			Director Distribution				
·			VP Asset Management VP Operations				

EB-2019-0032 Filed: August 1, 2019

Responses to Interrogatories from SEC

COST VARIANCE REPORT - PLEASE LINK TO WORK ORDERC - 9 - Attachment 1

22015099 - 58 Park- U of W- OH/UG Relocation- Cable Pulling

9 of 10

		PROJ	ECT S	COPE	SUMMAR	<b>RY</b>			
							DNST	RUCTED	
To install underground syst switch, a 300kVA 120/208\ 120/240V minipad transford cables into existing ducts a new switch, transformers a	/ pad transformer a mer. Also, to run pri nd make the final co	nd 100KVA mary and sec	condary	such as sanitary sewer locations.					
2027.0475.0004			COST						
COST CATEGORY	ESTIMATE	ACTUAL		IANCE	%VAR	%TARGE		RECOMMENDATION	
LABOUR	\$48,198	\$68,349	\$20	),150	41.8%	10.00%	_	n review session should orate a discussion of the crew	
VARIANCE ANALYSIS  The variance in labour cost was due to the actual installations that required multiple outage arrangements and feeder isolations to energize 3 pad mount transformers including the new one for the university. There were separate outages that needed to be arranged to energize each transformer.  WERE TREES ADDITIONAL ENGINEERING COSTS RELATED TO THE DESIGN REVISIONS 1 CONFIGURATIONS 2					and ve this sto the de Potent based	ehicle complement to be used; ep has recently been added to sign review session document. tially CU will need to be adjusted on these design reviews and labour hours.			
MATERIAL	\$127,430	\$124,369	$\overline{}$	,061)	-2.4%	10.00%	<del></del>		
VARIANCE ANALYSIS No variance.				, , , , , , , , , , , , , , , , , , , ,					
TOOLS	\$3,454	\$5,651	\$2,	197	63.6%	10.00%			
VARIANCE ANALYSIS See labour variance.									
SERVICE	\$77,000	\$139,613	\$62,	613	81.3%	10.00%	Recom	mend that when doing civil work	
VARIANCE ANALYSIS Estimated services in the wo tems in the annual contract. Inderground conflicts with the plans, we agreed to be billed extra cost for the civil work is electrical contractor and the	Due to long field dis e new University sa by our civil contrac \$52,262.00. Other	scussions with nitary sewers tor according services not (	h the ge and the to time estimate	neral co e field o and ma ed in the	ontractor regional changes to the terial only. To work order	arding the ne duct run he total		ntially congested/old area, that nt buffers to estimates be ered.	
OTAL	\$256,082	\$337,981	\$81,8	899	32.0%		See detailed package provided that		
ARIANCE ANALYSIS								s S&C invoices and	
he total variance of \$81,899	is due to extra civil	work, electric	cal conti	ractor a	nd outages o	osts.	sheets,	tractor invoices, inspection a Rorison invoice and a Golder tes invoice.	
TECHNOL	OGIST/ENGINE	ER			SIGNA	TURE		DATE	
	war Nagar			AI	mour.	Alex/I-		Oct/01/2018	
	FF FOR PROJ	ECTS WIT	H GR	EATER	THAN 1	0% VARIA	NCE	(TOTAL)	
ESTIMATE / ACTUAI	- SIC	NOR			SIGNA			DATE	
Up to \$5,000				Vagjar	ice report	not require	∍d		
>\$5	k Manager	Engineerin	ng	XX	ente Ra	tolen	~	Oct 2, 7,018	

Note: Copy of the report should be forwarded to Finance for all variances in excess of \$50k (the total % variance would need to be above 10% as well).

**Director Engineering** 

Director Distribution
VP Operations

>\$50k

>\$150K

WO # - DESC.

Revised: Sept 26, 2017

Det. 3/2018.

18.10.10

EB-2019-0032 Filed: August 1, 2019

# Responses to Interrogatories from SEC COST VARIANCE REPORT - PLEASE LINK TO WORK ORDER - 9 - Attachment 1 10 of 10

WO # - DESC.			
	PROJECT SCOPE SU	MMARY	
OR	IGINAL SCOPE	AS CONSTR	UCTED
	rial and trucking to install 33 - 49'-		
,	les on EC Row for the City of		
Windsor			

			STSUMMA			\$84.2 min 4x
COST CATEGORY	ESTIMATE	ACTUAL	VARIANCE	%VAR	%TARGET	RECOMMENDATION
LABOUR	\$58,311	\$66,157	\$7,846	13.5%	10.00%	
VARIANCE ANALYSIS						
Extra time was required to coordinate traffic control with Sherway and repair damaged underground cable.						None
MATERIAL	\$96,645	\$100,929	\$4,284	4.4%	10.00%	
VARIANCE ANALYSIS						
						None
TOOLS	\$6,981	\$10,798	\$3,817	54.7%	10.00%	
VARIANCE ANALYSIS				,		
Refer to labour comments abo	ve					None
SERVICE	\$82,283	\$113,745	\$31,462	38.2%	10.00%	Estimate for work to be
VARIANCE ANALYSIS		· · · · · · · · · · · · · · · · · ·	,			completed on weekends or
Heaton was added to the project to expose streetlight conductor at each pole.					midnight to minimise traffic impact.	
These extras were approved by	/ Tiffany Pocock fi	rom the City o	of Windsor.			
TOTAL	\$244,219	\$291,629	\$47,410	19.4%	10.00%	
ARIANCE ANALYSIS						
Refer to comments above					None	
TECHNOLOG	GIST/ENGINE	ER		SIGI	VATURE	DATE
Store	e Zambito		1 To	es son	176	004.4/16

	SIC	N OFF	OR PROJECTS WITH GR	EATER THAN 10% VARIANCE (10	TAL)
ESTIMATE / ACTUAL		CTUAL	SIGNOR	SIGNATURE	DATE
U	p to \$5,00	00		· · · · · · · · · · · · · · · · · · ·	
		>\$5k	Engineering Manager	Steve Batoure	Oct. 4116
>\$150K	>\$50k		Director Engineering	1200	OCT 4, 2016
- \$ 150K			Director Distribution	Internial-	Opt-11/16
		,	VP Asset Management VP Operations	0	



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 10

Page **1** of **1** 

2 - SEC - 10

Reference:

Exhibit 2, page 42

Question:

Please explain the basis for the 'plan' amount in each year.

#### Response:

ENWIN outlines the basis for "plan" on page 232 of Exhibit 2:

Throughout this analysis, "Plan" in 2009 refers to the budget submitted through ENWIN's CoS application for 2009 rates. Thereafter, "Plan" refers to ENWIN's internal capital budget amounts through 2013. Through this period, the concept of investment category did not exist and for purposes of this review, the "Plan" amounts represent the budget line items according to the categories for expenses established in the Chapter 5 filing requirements. In 2014, "Plan" refers to those amounts filed in the 2014 DSP. Thereafter, "Plan" refers again to ENWIN's internal capital budget amounts.

ENWIN's internal capital budget process is outlined on page 40 of Exhibit 2.



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 11

Page **1** of **1** 

### 2 - SEC - 11

#### Reference:

Exhibit 2, page 41

### **Question:**

Please explain the drivers of the significant increase in annual; actual/forecast annual spending between 2013-2018 and 2019-2024.

### Response:

The drivers of significant changes in capital spend between 2013 and 2018 are explained on pages 48 to 54 of Exhibit 2. The increase in forecast spending for 2019 is explained on page 55. The main reason for the increase is the renovation cost for ENWIN's Rhodes Drive Operations Centre to allow for site consolidation. For 2020, the spending is expected to decrease as explained on page 56 of Exhibit 2. For 2021 to 2024, net capital spending is expected to stabilize and ranges from \$17.8 million to \$18.8 million as shown in Table 2-23 on page 42 of Exhibit 2.

Responses to Interrogatories from SEC

2 - SEC - 12

Page **1** of **3** 

## 2 - SEC - 12

### Reference:

Exhibit 2, Attach 2-A

### **Question:**

For each material capital project in 2019 and 2020, please provide the estimated in-service date.

### Response:

In-service dates for material capital 2020 projects are provided in Appendix F – Material Investment Summaries under the section entitled, "Expenditure Information & Timing". The following table has summarized those in-service dates and incorporated several expenditures unique to 2019. Please see the table below.

2019 & 2020 Capital Investment In-Service Date					
Year	Capital Investment Description	In-Service Date			
'19	Conductor Upgrade (Morton/Ojibway	Q4			
'19	Conductor Upgrade (Tecumseh/Jefferson)	Q3			
'19	NSD 70 Replacement (2019)	Q4			
'19 & '20	O/H Customer Connections	Throughout Year - As needed			
'19 & '20	U/G Customer Connections	Throughout Year - As needed			
'19 & '20	Bridge Plaza Relocation	Throughout Year - As needed			
'19 & '20	Ambassador Bridge Twin Span	Throughout Year - As needed			
'19 & '20	Road Widening Projects (City Driven Specifics)	Throughout Year - As needed			
'19 & '20	Riverside Vista Project (City Driven Specifics)	Throughout Year - As needed			
'19 & '20	Meter work - new customers (enhancement)	Throughout Year - As needed			
'19 & '20	Meter work - end of life (sustainment)	Throughout Year - As needed			



Responses to Interrogatories from SEC

2 - SEC - 12

Page **2** of **3** 

140 8 100	Meter Population Replacement / Upgrade (MIST	Throughout Voor As pooded
'19 & '20	Meters)  Reactive Replacement of Failed Equipment (U/G,	Throughout Year - As needed
'19 & '20	O/H)	Throughout Year - As needed
'19 & '20	Reactive Replacement of Failed Cable	Throughout Year - As needed
'19 & '20	Reactive Replacement of Transformers	Throughout Year - As needed
'19 & '20	Reactive Pole Replacement	Throughout Year - As needed
'19 & '20	Reactive Pole Pulling	Throughout Year - As needed
'19 & '20	Reactive Hardware Replacement Program	Throughout Year - As needed
'19 & '20	Reactive Manhole/Vault Rehabilitation	Throughout Year - As needed
'19 & '20	Retest Smart Meters	Throughout Year - As needed
'19 & '20	Miscellaneous TS Equipment, EOL Replacement - Reactive	Throughout Year - As needed
'19 & '20	Weld / Meter Shop / Stores / Garage Misc Site - Reactive	Throughout Year - As needed
'19 & '20	Pole Sustaining Program	Throughout Year - As needed
'19 & '20	Manhole Rebuild Program	Q3
'19 & '20	Submersible Sustainment Program	25%-Q2, 25%-Q3, 50%-Q4
'19 & '20	O/H 3-Phase Transformer Sustainment	Throughout Year - As needed
'19 & '20	Removal of PMH-4 & PMH-Specials	Throughout Year - As needed
'19 & '20	UG PadMount Sustaining Program	Throughout Year - As needed
'19 & '20	Switching Unit Sustaining Program	Q3, Q4
'19 & '20 '19 & '20	Switching Unit Sustaining Program  Automating Underground Switching Units	Q3, Q4 Q2, Q3
'19 & '20	Automating Underground Switching Units	Q2, Q3
'19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement	Q2, Q3 Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4
'19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed Throughout Year - As needed Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution  Network Infrastructure Update and Cyber Security	Q2, Q3  Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4  Q4  Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution  Network Infrastructure Update and Cyber Security  Customer Relationship, Billing and IVR	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution  Network Infrastructure Update and Cyber Security  Customer Relationship, Billing and IVR  Strategic Enhancements and Tools	Q2, Q3  Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4  Q4  Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution  Network Infrastructure Update and Cyber Security  Customer Relationship, Billing and IVR  Strategic Enhancements and Tools  Site Rhodes	Q2, Q3  Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4  Q4  Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution  Network Infrastructure Update and Cyber Security  Customer Relationship, Billing and IVR  Strategic Enhancements and Tools  Site Rhodes  Hydro Operations Vehicles	Q2, Q3 Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4 Q4 Throughout Year - As needed
'19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20 '19 & '20	Automating Underground Switching Units  Meter Tank Replacement  Underground Cable Sustainment (Sub Division)  Customer SU Vault Sustainment  SCADA Misc Sustaining  SCADA communications Equipment  Life Cycle Upgrades  GIS Evolution and Integration  SAP Evolution  Network Infrastructure Update and Cyber Security  Customer Relationship, Billing and IVR  Strategic Enhancements and Tools  Site Rhodes  Hydro Operations Vehicles  Hydro Metering Vehicles	Q2, Q3  Throughout Year - As needed 25%-Q2, 25%-Q3, 50%-Q4  Q4  Throughout Year - As needed



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 12

## <u>Page **3** of **3**</u>

'19 & '20	SCADA FCI's	Q2,Q3
'19 & '20	Operations Tools	Throughout Year - As needed
'19 & '20	Engineering Tools	Throughout Year - As needed
'19 & '20	Meter Shop Tools	Throughout Year - As needed
'19 & '20	Records Management System	Throughout Year - As needed
'19 & '20	Feeder Balancing	Throughout Year - As needed
'19 & '20	Engineering Power Quality	Throughout Year - As needed
'20	Wholesale Metering: Keith TS Feeders	Q1
'20	Radial Branch Backups (23M2 - Single Phase)	Q1
'20	Sectionalizing Load Break Switches	Q3, Q4
'20	Feeder Tie - 15M11-55M24	Q3
'20	Green Energy Plan/Walker 2 Reactors - Transfer trip pilot	Q4
'20	Radial Branch Backups (55M1)	Q2
'20	Walker Road-Foster to Airport Rd	Q3, Q4
'20	Conductor Upgrade (23M2 LPT1)	Q2, Q3
'20	Vacuum Switch Replacements	Q4
'20	CPP Switch Controller Replacements	Q4
'20	Conductor Upgrade (55M21 LPT1)	Q2, Q3, Q4
'20	Feeder Reliability Improvement Project - Prince to Brock	Q2, Q3, Q4
'20	25M7 Feeder Ring Project	Q2. Q3





Responses to Interrogatories from SEC

2 - SEC - 13

Page **1** of **7** 

#### 2 - SEC - 13

#### Reference:

Exhibit 2, Attach 2-A

#### Question:

Please provide a detailed chronology of the capital planning process that led to the capital plan contained in this application.

#### Response:

The components and process of ENWIN's Asset Management Process (AMPRO) is described in section 5.3.1 (b) of the DSP and is reproduced here in italics.

The AMPRO (which was briefly discussed in Section 5.2.1 (c) of the DSP, above) begins with an analysis of the assets, the purpose of which is to consider whether the assets meet ENWIN's requirements related to safety, reliability, sufficiency, capital efficiency, risk minimization and sustainment, now and into the future. Outputs from this activity include a list of projects and programs which are necessary to ensure that core assets are able to deliver value to customers and other stakeholders in the future. These projects and programs will be described along with the rationale for their undertaking including the benefits to be gained and the resource expenditure required.

Asset planning uses as inputs, the output of the asset knowledge, system performance review and risk review activities as well as system operational assessments and comparisons to determine any mismatch against design criteria.

Each supply station and feeder is reviewed for deficiency and opportunity; as is the interconnected distribution system. The review is intended to:

- 1. identify assets at risk because of their health assessment or location;
- 2. determine the sufficiency of the assets to serve for expected load growth;
- 3. determine the operational sufficiency of the system to support itself during contingencies;



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 13

Page **2** of **7** 

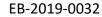
- 4. determine where assets fail to meet the design criteria for which they are intended to comply;
- 5. determine deficiencies and opportunities to enable assets to fulfill future requirements (i.e. accommodating REG and DER, serving EV loads, etc.); and
- 6. determine deficiencies and opportunities to enable service improvements for customers (i.e. smart grid, increased reliability, home automation, etc.).

The output of the asset planning activity will be a series of projects that will provide value in accordance with the established strategic values. The projects are also assessed at a high level for the resource requirements needed to complete the project. The assessments and projects are summarized in the AMP. The AMP is a comprehensive study which provides a load forecast for the short and long term, reviews future requirements that the grid may be asked to accommodate (i.e. reverse power flow from DER, EV loading, load and generation management, etc.), reviews current grid capabilities, reviews current reliability and sufficiency, and provides a roadmap of activities needed to sustain the electricity distribution infrastructure in both the short and long term.

It is likely that a number of issues and opportunities will be identified through this process, which will apply across a number of feeders or the entire distribution system. In these cases, the issue or opportunity is defined as a "program" to be considered as a single opportunity rather than a multitude of activities across a number of feeders. Additionally, during the asset planning activity, any project dependencies will be identified so that these dependencies can be considered when reviewing and evaluating projects. These programs will be identified and go forward for review and evaluation as an entity.

The AMS produces a plethora of projects aimed at satisfying the corporate values and strategic objectives. In order to move forward with the most appropriate projects, the projects must be reviewed and prioritized. The project prioritization activity facilitates the identification of projects by priority.

The planning objectives that are considered relate to ENWIN's values of safety, reliability, sufficiency, capital and operating efficiency, risk minimization and sustainability. Additionally, capital investment decisions must ensure that appropriate resources are available to complete mandatory System Access projects such as new customer connections, road widenings, and other OEB mandates such as smart meters. These are balanced against expenditures for System Renewal, System Service and General Plant. Expenditure requirements are considered against inputs from customer engagement activities, as well as ENWIN's desire to minimize and smooth rate increases while satisfying the stated needs and preferences of the customers.



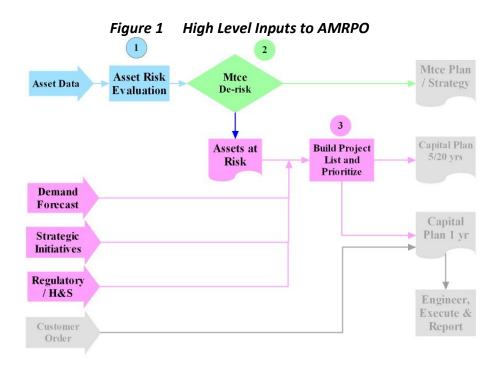


Responses to Interrogatories from SEC

2 - SEC - 13

Page **3** of **7** 

The high-level AMPRO is shown in Figure 13 below:



High-value potential capital projects may be defined and pre-engineered to more accurately determine the implementation cost. Inputs from all sources that account for regional growth forecasts, regulatory influences, strategic initiatives, health and safety as well as a list of high risk assets (step 1 in the model shown) will be used to determine all of the potential capital projects. Each capital project will be prioritized based on the pre-established strategic goal weighting factors. The simplified model is shown in Figure 14 below:



2 - SEC - 13

Page **4** of **7** 

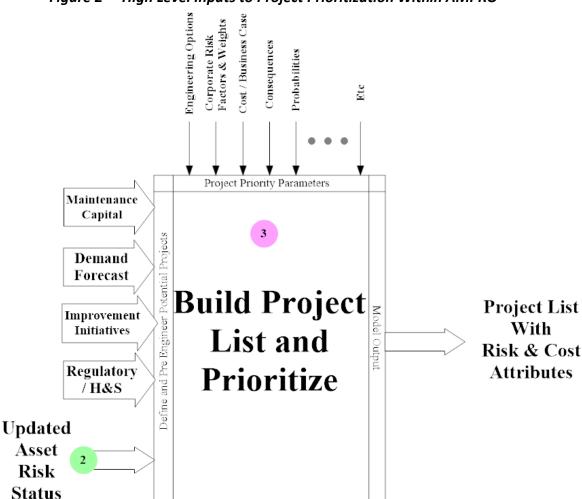


Figure 2 High Level Inputs to Project Prioritization Within AMPRO

ENWIN's asset plans and capital budgets are also informed by the following:

Asset Capacity Utilization / Constraint Assessment:

ENWIN also reviews its assets for sufficiency. In particular, the loading of transformers is reviewed relative to their capacities. Where transformers appear to be significantly overloaded, that loading is verified and, where the loading is indeed over the transformer's capacity, those transformers are scheduled to be changed and upgraded. Similarly, transformers that are significantly under-loaded may be considered for replacement.



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 13

Page **5** of **7** 

The distribution system is also reviewed on a feeder-by-feeder basis with the intention of identifying any areas where operational liabilities exist. These may be in the form of undersized cables, feeders whose load has grown and that cannot be backed up by other feeders, critical lines that cannot be accessed at certain times of the year or during storms, switches whose automation would greatly increase the speed of isolation and restoration of parts of a circuit during an outage, etc. This review also identifies areas of the system that do not meet design criteria for either serving of load or maintenance of reliability. This review will identify areas where reliability improvements could be obtained or risk mitigated through the identification of projects which are brought forward for consideration.

ENWIN also performs a review of system growth and identifies areas with vacant land and the capacity for growth. The outcome of this review is compared to the capacity of the existing distribution system to accommodate that growth. Where deficiencies exist, remedial projects are identified. In general, network expansions do not occur unless there are real customers requesting service. Nevertheless, it may be appropriate to size a network replacement for asset health or other reasons so that it can accommodate anticipated growth in the future. In some cases, where load growth is more certain, projects may be initiated and forwarded for consideration in the short term.

ENWIN also reviews renewable generator connection requests, prepares forecasts for future requests, and compares this forecast with the system capacity to accept generation. Where deficiencies exist to accommodate renewable generation, ENWIN develops plans to expand or enhance the distribution system to accommodate increased levels of renewable generation.

Historical Period Data on Customer Interruptions caused by Equipment Failure:

ENWIN monitors outages by cause and produces monthly and annual reports showing this. Preventable causes, in particular, are noted and reviewed so that any trends are taken into account in the development of capital and maintenance plans. Equipment failure is noted in particular, as ENWIN's intention is to generally replace equipment prior to failure and on a planned basis to minimize customer inconvenience. For



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 13

Page **6** of **7** 

example, outages due to tree contacts are reviewed and are an indicator of the success of ENWIN's vegetation management program.

Reliability-based 'Worst Performing Feeder' Information and Analysis

A worst performing feeder analysis is performed annually and informs capital and maintenance priorities in the annual budgeting process. The number of customers affected by a feeder outage is taken into consideration in the determination of the relative ranking of feeder performance. By giving priority to projects intended to improve reliability on worst performing feeders, ENWIN tries to improve the experience of the most customers with the poorest reliability. At present, ENWIN's means of assessing individual customers' reliability experience is only able to be done manually, so ENWIN is unable to rank reliability performance by customer. The worst performing feeder determination is done using a summation of the last 3 years of history and using number of outages, duration of outages, number of momentary outages, and number of customers affected by each outage.

#### Reliability Risk / Consequence of Failure Analyses:

Reliability risk and consequence of asset failure are part of ENWIN's AMPRO and dealt with in project pacing and prioritization. ENWIN analyses the risk of proposed projects in terms of their likelihood and consequence profile. The projects are prioritized by dividing the total cost of the project by the change in the risk score which calculates the "Risk Reduction Factor". This is performed using PROSORT.

The capital budget is also informed by a forecast for System Access expenditures for new customer connections and other mandatory investments such as road widenings and mandated regulatory programs. As well, general plant expenditures that facilitate the provision of distribution services are also considered.

The quantum of the capital budget is initially informed by the approved budgets in the last cost of service application as well as on-going customer engagements which solicit feedback from customers regarding what the customer is willing to pay for distribution services and the quality and reliability of those services. Within the budget envelope, prioritized projects are selected and promoted to the capital budget for the planning year. Occasionally, it is judged that there are projects on the prioritized list that are important, yet unable to be accommodated within



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 13

Page **7** of **7** 

the budget envelope. Where the budget envelope is insufficient to avoid a strong risk of negative outcomes for customers, then a reconsideration of the quantum of the capital budget and the customer's willingness to pay to mitigate the risk of the negative outcomes is undertaken. The reconsideration of the budget envelope will necessarily include options for funding that envelope.

Where it is judged that the risk of negative outcomes is able to be sufficiently mitigated with a lower capital budget envelope, then a reconsideration of the budget envelope would also be undertaken including options for reducing that envelope.



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 14

Page **1** of **1** 

2 - SEC - 14

Reference:

Exhibit 2, Attach 2-A

Question:

Please explain how planning process set out in this application has changed since its last application before the Board for 2009 rates.

#### Response:

The planning process with respect to the distribution system capital investment plan (i.e. the Distribution System Plan) is more sophisticated and rigorous than the capital planning process that was used in preparing the 2008 application for 2009 rates. At the time of the 2009 rate application, ENWIN did not have a formal Asset Management Planning process but instead synthesized input from a variety of sources into a final capital plan. Since that time, ENWIN has developed a documented Asset Management Planning process and has formalized the asset inspection program upon which the results of the asset management planning process are founded. Additionally, from a network operations perspective, since the 2009 rate application, ENWIN has introduced and uses the CYME network analysis software platform to analyze the operation of its distribution system. This provides a significant improvement on the prior capabilities for system analyses which relied on assumed loading, network configuration approximations and one-off, single feeder voltage drop analyses. Additionally, ENWIN has adopted a commercial project prioritization program to assist in the prioritization and selection of projects and programs that offer the greatest value to customers. Finally, ENWIN has undertaken an effort to better inform customers about its plans and to solicit customer feedback about those plans so that the 2020 rate application is informed by the desires of ENWIN's customers.

As a result of these improvements, the 2020 rate application is based on a much more solid base of facts regarding the condition and operation of its distribution system as well as the desires of its customers with regard to the balance between cost and reliability.



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 15

Page **1** of **1** 

2 - SEC - 15

Reference:

Exhibit 2, Attach 2-A

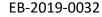
Question:

For each of the Applicant's major asset/asset categories, please provide a table that shows for each and for each year since 2009 to 2025: a) the number of assets replaced/forecast to be replaced, b) the cost/forecast cost to replace.

#### Response:

ENWIN has not tracked the number of assets replaced by year. Forecasts are done in terms of financial investment and are roughly linked to the number of assets to be replaced each year. While the condition of specific assets is the basis for the development of System Renewal projects, those projects are framed early in the process into financial investments and tracking thereafter is done on a dollar basis.

ENWIN's GIS is a relatively new development and only recently (2016) became sufficiently reliable, after a comprehensive pole inspection program, to provide reasonable asset counts and age data. Even at that, ENWIN tracks asset age but does not distinguish between assets that were installed new vs. those that were installed as a replacement.





Responses to Interrogatories from SEC

2 - SEC - 16

Page **1** of **1** 

## 2 - SEC - 16

## Reference:

Exhibit 2, Attach 2-A, Page 56

## **Question:**

Please provide a table that shows the Applicant's SAIDI and SAIFI for each year since 2009 excluding loss of supply and major event days.

### Response:

Please see the table below. Prior to 2016, ENWIN did not track major event days although there were major event days in 2011, 2012, 2013, 2016 and 2018. Prior to 2010, ENWIN did not track Loss of Supply events.

	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
SAIFI	2.9681	1.7509	2.0697	1.9949	1.9080	2.4214	2.1213	2.7206	1.7926	1.1790
SAIFI LOS	2.7476	1.6972	1.4257	1.8765	1.8463	2.2862	1.8389	2.6891	1.7926	
SAIFI MED	2.4442	1.7509	1.8330	1.9949	1.9080	2.4214	1.7593			
SAIFI LOS MED	2.2237	1.6972	1.2330							
SAIDI	1.3246	0.7301	0.9646	1.0657	0.8114	1.0163	1.0374	2.4796	0.9778	0.5527
SAIDI LOS	1.2767	0.7243	0.6355	1.0606	0.8063	0.9395	1.0039	2.4532	0.9778	
SAIDI MED	1.1559	0.7301	0.7986	1.0657	0.8114	1.0163	0.8319			
SAIDI LOS MED	1.1080	0.7243	0.4783							



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 17

Page **1** of **1** 

2 - SEC - 17

Reference:

Exhibit 2, Attach 2-A, Page 64

**Question:** 

Please revise table 18 and 19 to include information from 2009 to 2012.

## Response:

Please see the response to VECC-9.



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 18

Page **1** of **1** 

## 2 - SEC - 18

## Reference:

Exhibit 2, Attach 2-A, Page 110

## **Question:**

Before Kinetrics undertook an ACA in 2017, has the Applicant had a ACA or similar analysis of the condition of its assets. If so, please provide a copy of previous versions of the ACA or similar analysis since 2009.

## Response:

Please see the response to AMPCO 12, Attachment 1.



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 19

Page **1** of **3** 

2 - SEC - 19

#### Reference:

Exhibit 2, Attach 2-A, Page 183

#### Question:

The evidence states: "Since price is of critical importance to its customers, ENWIN has responded by pacing and deferring investments. In some cases, projects that were originally intended to be completed in the DSP were not pursued due to the cost of the project and the benefit." Please provide full details of the changes made the capital plan after the Applicant undertook its customer engagement activities. Please quantify the impact to the test year budget of the changes made.

#### Response:

ENWIN has always had a mandate to ensure the service it provides is affordable to ratepayers and ENWIN always reviews its plans with that in mind. There were several recent projects that were not pursued due to high costs and as a result of the prioritization tools and processes implemented by ENWIN. The following are projects that were altered, cancelled or deferred as costs were judged to be not in alignment with ENWIN's goal to provide an affordable service to its customers.

55M21/22 pole replacement project: Due to the extremely expensive labour involved in replacing the poles along a rail track, the project was reconfigured to another running line with consequent lower cost and added benefits.

Point to Multi-point Transfer Trip: ENWIN considered a proposed pilot for ENWIN to work with a consultant to perform a pilot project for a single to multi point remote trip solution. There were technical and costs concerns about the proposed solution and during a Hydro One customer meeting ENWIN was advised that Hydro One had already tested this solution and decided not to implement it. The pilot project was consequently cancelled.

Transfer Trip Replacement for Transmission Connected Stations: ENWIN considered replacing its aging transfer trip equipment serving its automotive transformer stations and its Walker 2 station because the station equipment was at end of life and the phone lines that connected them were frequently failing and out of service for a critical service. ENWIN judged the cost to be too high for customers to bear and modified the project to replace the equipment in only



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 19

Page **2** of **3** 

one station while reserving that equipment as spares for the remaining stations which ENWIN will run to failure for as long as it can keep a spare. ENWIN also decided to work with the communication company to try to get them to improve the level of service they provide.

West End Transformer Station: ENWIN has a number of large customers located in an industrial park in the west end of the City. Those customers have great sensitivity to power quality disturbances and there is land for load growth potential in that area. In ENWIN's DSP filed in 2014, ENWIN had planned to construct a new transmission connected transformer station in 2017 in the west end to provide a better quality service and provide for future growth. The amount of the planned capital investment was \$16.5 million including new feeders egressing from the station to the customers. In 2017, ENWIN judged that the cost of the station was not in keeping with ENWIN's values to provide its customers with an affordable distribution system and ENWIN indefinitely deferred the project

Walker 2 Reactors: In ENWIN's 2014 DSP, ENWIN planned to add bus tie reactors to its Walker 2 transformer station in order to accommodate addition distributed generation connections and the ability to accept the additional fault current that those connections provide. The reactors were planned for 2017 and were similar to that already provided by Hydro One in many of its stations serving ENWIN's distribution system for an estimated cost of \$3 million. As well, while Hydro One typically provides a 5% reserve fault current capacity in its stations, ENWIN decided to forgo the reserve capacity and allow distributed generators to connect to Walker 2 feeders while pushing the ability of the station to accept fault current to 100% of the statutory maximum of 17kA. This has saved customers money by deferring the expenditure to the future. While ENWIN expects to reach the threshold of generator connections that will push the need for the reactor, ENWIN is deferring that expenditure into the latter years of this cost of service application forecast period and will try to defer the expenditure as much as possible.

Keith TS Wholesale Meters: ENWIN has had an obligation to comply with IESO wholesale metering requirements at the Keith TS and had originally planned to upgrade the meters in 2010. ENWIN had budgeted \$410k in 2010 to install pole mounted PME wholesale meters on the feeders outside the station boundaries. After the government announced that a new bridge to the US would be build adjacent to the Keith TS, ENWIN put its plans to upgrade the Keith TS wholesale metering into abeyance and sought approval from the IESO for a deferral. This was done to avoid having to spend over \$400,000 on a compliance item that would need to be abandoned and re-invested when the bridge work was finally done. This was done to save ratepayers money.

Wi-Max Communication System: In 2016-17 ENWIN commissioned a study to review communications technologies for our geographic area, trends in communications and to prepare a recommendation and cost estimate for a communication system that would support



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 19

Page **3** of **3** 

ENWIN's "IoT" or Internet of Things, particularly remote devices and operations (i.e. remote operable switches, FCIs, meters, transfer trip, field data collection tablets, etc.). The study included leased, private network cellular, private spectrum radio, public spectrum radio and private spectrum Wi-Max. While the study had a recommendation for a Wi-Max system, that system was extremely expensive with 10-year combined capital and operating costs exceeding \$7 million. At the same time as the study concluded, cellular pricing started to drop. ENWIN judged that it was in its customer's best interest to not commit to build a Wi-Max system but to deploy a combination of leased, private network cellular points and where there was a clear path, public spectrum radio (900 MHz). ENWIN continues to monitor communication system developments but has no large system capital spending plan for communications.





Responses to Interrogatories from SEC

2 - SEC - 20

Page **1** of **1** 

#### 2 - SEC - 20

#### Reference:

Exhibit 2, Attach 2-A, Page 213-214

#### Question:

With respect to the risk matrix and benefits matrix:

- a. Within each value, which have a weighting, there are in some instances multiple categories, how does the Applicant weigh the categories within a value?
- b. How does the Applicant determine customer costs?
- c. Is there a more detailed guide used internally? If so, please provide a copy.
- d. Please explain how the likelihood of failure is determined.

#### Response:

- a) Within each Value, there may be multiple Categories. For example, in the Financial Value, there are Categories for Customer Costs, Utility Costs, Fines/Penalties and Legal/Insurance. There are weightings across the Categories from Insignificant to Catastrophic. The PROSORT tool requires a numeric entry for each Value. In determining the risk score for a particular Value, the Applicant needs to consider the various Categories available within the Value. The one that is selected is the one with the highest risk score. Once that Category is selected then that remains the category within which the mitigations act to reduce the risk score.
- b) ENWIN determines customer cost based on judgment. The categories are quite broad (>\$1,000, <\$100,000, <\$1 million and >\$1 million) so a reasonable differentiation can be made.
- c) There is no more detailed guide for the use of the risk matrix.
- d) The likelihood of failure is determined by judgment of ENWIN. That judgment is informed by incidents where the risk has occurred in the past.





Responses to Interrogatories from SEC

2 - SEC - 21

Page **1** of **1** 

### 2 - SEC - 21

#### Reference:

Exhibit 2, Attach 2-A, Page 213-2015, 311. With respect to the PROSORT tool:

#### Question:

- a. How long has the Applicant been using this tool?
- b. Since the Applicant begun to use the tool, for each year the Applicant has run the tool to prioritize projects, please provide a list of projects and the summary information (i.e. change of risk score, and CRPF).
- c. For all 2019 and 2020 projects, please provide the full project information similar to provide in Table 76
- d. How does the tool, if at all, ensure that projects that have a low overall risk, but low cost per unit of risk, are excluded from the prioritization?

### Response:

- a) ENWIN has been using the PROSORT tool since 2018.
- b) Since ENWIN began using the PROSORT tool in 2018, the 2019 budget had been cast without the use of the tool and the only application of the tool thus far has been for the 2020 test year.
- c) The full PROSORT project information for all material 2020 projects is provided in Appendix F Material Investment Summaries in the section entitled, "Risks and Risk Mitigation".
- d) Please see the response to OEB Staff-62 (a).





Responses to Interrogatories from SEC

2 - SEC - 22

Page **1** of **3** 

#### 2 - SEC - 22

#### Reference:

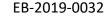
Exhibit 2, Attach 2-A, Appendix C, p.11. With respect to the Facilities Business Plan:

#### Question:

- a. Who owned and had legal responsibility over the Ouellette Facility, the Applicant or the Water Utility Commission?
- b. If the answer to part (a) is the Applicant, please explain why any portion of the gains on sale should be allocated to the Water Utility Commission.
- c. Please explain why the Applicant is proposing to share the gains on sale 50-50 between shareholder and ratepayer.
- d. The evidence is not sufficiently on what the specific renovations are to be undertaken to the 4545 Rhodes Drive. Please provide further details and detailed budget.

### Response:

- a) Prior to the enacting of the *Electricity Act, 1998*, the former Windsor Utilities Commission had legal responsibility over the Ouellette Facility. Pursuant to sections 142(2) and 145(1) of the *Act*, the LDC was corporatized and assets transferred. ENWIN has reported full ownership of this facility on financial statements since that time. The Windsor Utilities Commission may still appear on title, but ENWIN has legal responsibility since an approved asset transfer occurred under City Council and Windsor Utilities Commission resolutions.
- b) Please see the response at OEB Staff 122.
- c) Please see the response at OEB Staff 122.
- d) Renovations will take place at the 4545 Rhodes Dr. and the 3665 Wyandotte St. East facilities. To date, the budget forecasts for 2019 and 2020 are based on a Class "C" estimate. Final design activities will culminate with a Class "B" estimate in August 2019, followed by construction tender pricing in late September 2019.





Responses to Interrogatories from SEC

2 - SEC - 22

Page **2** of **3** 

The 4545 Rhodes Dr. existing footprint is to be renovated to accept approximately 100 office employees from the ENWIN Ouellette Facility, and to also sustain the approximately 200 current office and operational employees at that location.

Vacant space at 3665 Wyandotte St. East is to be renovated to accept the Ouellete Facility Server Room.

Based on the intended renovations and the Class "C" estimate, the following details and budget estimates are available:

4545 Rhodes Dr. – First Floor Renovations

- 45,276 sq. ft. total area
- 32,470 sq. ft. to be renovated (exsiting offices and shop areas to be renovated to house existing employee and functions and to create additional office spaces as well as a large meeting room to servce as a board room for ENWIN's Board of Directors)

4545 Rhodes Dr. – <u>Second Floor Renovations</u>

- 26,928 sq. ft. total area
- 15,101 sq. ft. to be renovated (exsiting offices areas to be renovated to house existing employee and functions and to create additional office spaces)

4545 Rhodes Dr. – Warehouse Renovations

- 27,712sq. ft. total area
- 7,732 sq. ft. to be renovated to accept relocation of existing operations shop areas on first floor to warehouse

3665 Wyandotte St. East – <u>Server Room Renovations</u>

• Server Room - 930 sq. ft. of vacant space to be renovated

The Class "C" estimate by ENWIN's preliminary design consultant from March 2018 was as follows:



Filed: August 1, 2019

Responses to Interrogatories from SEC

2 - SEC - 22

Page **3** of **3** 

4545 Rhodes Dr.

First Floor Est. \$1,209,600

Second Floor Est. \$626,400

Warehouse Est. \$481,500

Contingencies, allowances, overhead, profit, etc. \$1,052,100

Soft Costs Est. \$636,000

Est. Sub-Total \$4,005,600

3665 Wyandotte Str. East

Server Room Est. \$350,100

Soft Costs Est. \$65,300

Est. Sub-Total \$415,400

Original Est. Total \$4,421,000

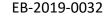
Estimated Deductions Due to Cost Containment

Efforts to reduce Work on Second Floor (\$800,000)

Revised Est. Total \$3,621,000

Since the original concept design in March of 2018, further design changes have occurred that are expected to reduce the renovation spends for the first floor and warehouse renovations at 4545 Rhodes Dr. It is anticipated that such design changes will further reduce the estimated project costs to be consistent with the Cost of Service estimate of \$3,500,000.

Please also see the response to VECC – 14.





Responses to Interrogatories from SEC

3 - SEC - 23

Page **1** of **1** 

## 3 - SEC - 23

### Reference:

Exhibit 3

### **Question:**

Please provide a revised version of Appendix 2-H with 2019 year-to-date actuals.

## Response:

The table below shows the June 30, 2019 year to date actual costs in a chart consistent with Appendix 2-H.

U SoA#	U SoA Description	Bridge Year <sup>2</sup>	
			2019 YTD
	Reporting Basis		MIFRS
4235	Specific Service Charges	\$	314,427
4225	Late Payment Charges	\$	211,788
4082	Retail Services Revenues		
4210	Rent from Electric Property	\$	364,666
4215	Other Utility Operating income	\$	286
4245	Government Assistance Directly	\$	194,291
4310	Regulatory Credit	\$	(1,366,041)
4355	Gain-Disposition of Util. & Other Prop	\$	55,413
4360	Loss-Disposition of Util. & Other Prop.	\$	(148,166)
4375	Revenues from Non-Utility Operations	\$	11,558,676
4380	Expenses of Non-Utility Operations	\$	(11,281,396)
4390	Miscellaneous Non-Operating income	\$	29,051
4398	Foreign Exchange G&L, incl. Amortization	\$	1,833
4405	Interest and Dividend Income	\$	441,240
Specific Ser	rvice Charges	\$	314,427
Late Payment Charges		\$	211,788
Other Operating Revenues		\$	559,244
Other incon	Other income or Deductions		(709,390)
Total		\$	376,068

Please note the Chapter 2 Appendices being filed with the responses to interrogatories is reporting the full 2019 Bridge Year and not year to date costs for Appendix 2-H.



Filed: August 1, 2019

Responses to Interrogatories from SEC

4 - SEC - 24

Page **1** of **1** 

4 - SEC - 24

Reference:

Exhibit 4, Page 8, Table 6-2

**Question:** 

Please provide the underlying spreadsheet (with formulas intact) used to create Table 4-2.

## Response:

ENWIN has attached the underlying spreadsheet used to create Table 4-2 in regards to Normalized OM&A Costs Compared to IPI.

Please refer to SEC 24 – Attachment 1.



Filed: August 1, 2019

Responses to Interrogatories from SEC

4 - SEC - 25

Page **1** of **3** 

4 - SEC - 25

Reference:

Exhibit 4

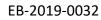
**Question:** 

Please add a column to Appendix 2-JC for 2019 year to date actuals.

## Response:

The chart below is consistent with Appendix 2-JC and contains the June 30, 2019 year to date actual costs.

Please note that the updated Chapter 2 Appendices including Appendix 2-JC have the full 2019 Bridge Year and do not contain year to date.





Responses to Interrogatories from SEC

4 - SEC - 25

Page **2** of **3** 

## Appendix 2-JC OM&A Programs Table

	2019 Bridge Year YT D
Programs	MIFRS
Reporting Basis	MIFRS
Customer Focus	
Community Relations	67,922
Bad Debt	229,669
Customer Service & Billings	1,126,944
Customer Collections	57,152
Sub-Total	1,481,687
Operations and Maintenance	
Storms	51,675
Overhead Operations and Maintenance	1,037,959
Underground Operations and Maintenance	843,309
Station and MTS Maintenance	119,096
Tree Trimming Maintenance	591,909
Transformer Operations and Maintenance	73,231
Load Dispatching (SCADA)	167,301
Meter Operations	337,520
Control Room Operations	713,562
Engineering	844,942
Health and Safety Program	113,300
Sub-Total	4,893,804



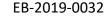


## Responses to Interrogatories from SEC

4 - SEC - 25

<u>Page **3** of **3**</u>

Administrative and General	
General Plant and Vehicles	738,989
Insurance	230,453
Information Systems	764,251
Post employment costs (EFB)	1,401,534
Administrative & Human Resource Expenses	2,867,118
Sub-Total	6,002,344
Public and Regulatory Responsiveness	
Regulatory Affairs	192,338
Audit, Legal and Consulting	233,489
Sub-Total	425,826
Miscellaneous	38,504
T otal	12,842,165





Responses to Interrogatories from SEC

4 - SEC - 26

Page **1** of **1** 

4 - SEC - 26

# Reference:

Exhibit 4, Page 18, Table 4-9

### Question:

Please explain why 'IFRS Change in Burden Rates – Rate' is a cost driver in any year after 2012, the year the Applicant adopted IFRS.

### Response:

The required conversion from Canadian Generally Accepted Accounting Principles ('CGAAP') to International Financial Reporting Standards ('IFRS') resulted in material changes in financial reporting for Local Distribution Companies.

ENWIN converted to IFRS in 2012 and the impacts of that conversion were realized in 2012 and every period thereafter.

Specifically for this schedule, the 'IFRS Change in Burden Rates – Rate' line represents the impact of changes in the accounting standards as it relates to capitalization. Burden rates are allowed to be used to capture specific costs and apply them against capital projects but when the conversion to IFRS occurred, the amount that could be capitalized was more restrictive. That resulted in lower burden rates (amounts that could be capitalized for overhead costs) and those lower burden rates resulted in lower capital spending but higher operating costs. Costs that were previously eligible to be capitalized under CGAAP were no longer eligible for capitalization under IFRS and that left more costs to remain within the income statement compared to CGAAP.



Filed: August 1, 2019

Responses to Interrogatories from SEC

4 - SEC - 27

Page **1** of **1** 

4 - SEC - 27

# Reference:

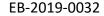
Exhibit 4, Page 35

# **Question:**

The evidence states that the current collective agreement with the 'Hydro' bargaining unit ended on March 31, 2019. Please provide an update on the status of negotiations.

# Response:

Please refer to the response provided to CCC-7.





Responses to Interrogatories from SEC

4 - SEC - 28

Page **1** of **1** 

# 4 - SEC - 28

# Reference:

Exhibit 4, Page 43. Please revise Appendix 2-K to include the following:

# **Question:**

- a. Breakout of non-management into union and non-union FTEs;
- b. Add a row to show the total amount of compensation costs in each year that are capitalized.

# Response:

a) The below schedule reflects the breakdown of non-management into union and non-union FTE's.

	Last Rebasing Year - 2009- Board Approved	Last Rebasing Year - 2009- Actual	2010 Actuals	2011 Actuals	2012 Actuals	2013 Actuals	2014 Actuals	2015 Actuals	2016 Actuals	2017 Actuals	2018 Actuals	2019 Bridge Year	2020 Test Year
Non-Management union	28	32	26	27	28	33	32	32	35	35	31	34	35
Non-Management non-union	143	130	131	132	133	129	126	125	130	129	121	125	126
Total	171	162	157	159	161	162	158	157	165	164	152	159	161

b) Please refer to VECC - 27 for total amount of compensation costs in each year that are capitalized.



Filed: August 1, 2019

Responses to Interrogatories from SEC

4 - SEC - 29

Page **1** of **1** 

4 - SEC - 29

Reference:

Exhibit 4, Page 66

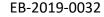
**Question:** 

Are the 2020 regulatory rebasing costs that are to be recovered commencing in 2020, also included in the historical/bridge OM&A costs in Appendix 2-JA, 2-JB, and 2-JC.

# Response:

Regulatory rebasing costs have been summarized in Board Appendix 2-M.

Those regulatory rebasing costs have been removed from the historical and bridge years within Appendix 2-JA, 2-JB and 2-JC. The amount proposed for recovery, which is 1/5 of the total regulatory rebasing costs has been added to those Appendices in the 2020 Test Year.





Responses to Interrogatories from SEC

4 - SEC - 30

Page **1** of **1** 

## 4 - SEC - 30

# Reference:

Exhibit 4, Page 50. With respect to the relationship between the Applicant and its affiliates:

### Question:

- a. Please complete a version of the attached excel table for each of 2017, 2018, 2019 and 2020.
- b. [Ex.4, Appendix K-O] Please detail all changes made to current shared services agreement with each of the Applicant's affiliates since 2009.

# Response:

- a) Excel tables for 2017 2020 have been attached isolating the shared services provided to each affiliate including ENWIN. Cost drivers have also been summarized in the table as well. Please see SEC 30 Attachment 1.
- b) The shared service agreements between ENWIN and the City of Windsor, ENWIN Energy Ltd. and Windsor Canada Utilities Ltd. have not changed since 2009.

There was a new agreement signed between ENWIN and the Windsor Utilities Commission to operate the water system effective November 6, 2012. That agreement called 'Water System Operating Agreement' has been included in the application as Exhibit 4, Attachment 4-L.



Filed: August 1, 2019

Responses to Interrogatories from SEC

4 - SEC - 31

Page **1** of **1** 

4 - SEC - 31

Reference:

Exhibit 4, Page 62

**Question:** 

Please revise 2020 PILS amount for the impact of Bill C-97. Please detail all changes made.

# Response:

Please refer to the response provided in Interrogatory OEB Staff - 114.



Filed: August 1, 2019

Responses to Interrogatories from SEC

5 - SEC - 32

Page **1** of **1** 

5 - SEC - 32

Reference:

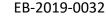
Exhibit 5

**Question:** 

For each year between 2009 and 2019, please provide the Applicant's actual or forecast ROE and the Board's ROE parameter for that year.

# Response:

Please refer to the response provided to OEB Staff - 6.





Responses to Interrogatories from SEC

7 - SEC - 33

Page **1** of **2** 

# 7 - SEC - 33

# Reference:

Exhibit 7, Page 8

# **Question:**

The Applicant proposes to eliminate two of its rate classes. Please provide a table showing the impacts in to all classes in a scenario where the Board does not approve eliminate of the two classes.

# Response:

Please see the attached tables below. <u>Note</u>: The combined classes bill impacts tables are based on the versions of the Cost Allocation Model and Revenue Requirement Work Form filed as part of these interrogatory responses.

Customer distribution and bill impacts, combined classes:

			Distribution (Fixed & Volumetric)				Total Bill				
Customer Class	kWh	kW	Current 2019	Proposed 2020	\$ Change	% Im pact	Current 2019	Proposed 2020	\$ Change	% Impact	
Residential	750	-	\$28.10	\$28.07	(\$0.03)	-0.11%	\$111.04	\$110.82	(\$0.22)	-0.20%	
General Service < 50 kW	2,000	-	\$67.93	\$63.67	(\$4.26)	-6.27%	\$285.17	\$279.76	(\$5.41)	-1.90%	
General Service > 50 to 4,999 kW	65,000	200	\$1,148.25	\$1,122.67	(\$25.58)	-2.23%	\$11,019.89	\$10,566.26	(\$453.63)	-4.12%	
Large Use 3TS	8,334,000	15,800	\$79,946.72	\$84,048.68	\$4,101.96	5.13%	\$1,232,815.46	\$1,240,364.45	\$7,548.99	0.61%	
Large Use - Regular	4,323,000	7,900	\$27,733.45	\$21,716.37	(\$6,017.08)	-21.70%	\$648,899.67	\$616,947.30	(\$31,952.37)	-4.92%	
Street Lighting	269,000	800	\$73,451.43	\$62,732.15	(\$10,719.28)	-14.59%	\$122,779.04	\$109,019.21	(\$13,759.83)	-11.21%	
Sentinel Lighting	255	1	\$24.90	\$26.04	\$1.14	4.58%	\$58.34	\$59.58	\$1.24	2.13%	
Unmetered Scattered Load	6,100	-	\$249.55	\$251.16	\$1.61	0.65%	\$981.04	\$980.57	(\$0.47)	-0.05%	



Filed: August 1, 2019

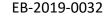
Responses to Interrogatories from SEC

7 - SEC - 33

Page **2** of **2** 

# Customer distribution and bill impacts, uncombined classes:

			Distr	ribution (Fixe	d & Volumet	ric)	Total Bill					
Customer Class	kWh	kW	Current 2019	Proposed 2020	\$ Change	% Impact	Current 2019	Proposed 2020	\$ Change	% Impact		
Residential	750	-	\$28.10	\$27.80	(\$0.30)	-1.07%	\$111.04	\$110.54	(\$0.50)	-0.45%		
General Service < 50 kW	2,000	-	\$67.93	\$62.21	(\$5.72)	-8.42%	\$285.17	\$278.22	(\$6.95)	-2.44%		
General Service > 50 to 4,999 kW	65,000	200	\$1,148.25	\$1,163.71	\$15.46	1.35%	\$11,019.89	\$10,611.73	(\$408.16)	-3.70%		
General Service 3,000 to 4,999 kW	1,142,000	3600	\$9,685.86	\$7,232.02	(\$2,453.84)	-25.33%	\$186,363.94	\$172,226.19	(\$14,137.75)	-7.59%		
Large Use 3TS	8,334,000	15,800	\$79,946.72	\$72,805.79	(\$7,140.93)	-8.93%	\$1,232,815.46	\$1,195,792.51	(\$37,022.95)	-3.00%		
Large Use - Regular	4,323,000	7,900	\$27,733.45	\$21,436.23	(\$6,297.22)	-22.71%	\$648,899.67	\$616,632.52	(\$32,267.15)	-4.97%		
Large Use - Ford Annex	3,784,000	6,200	\$108,613.13	\$104,635.01	(\$3,978.12)	-3.66%	\$644,848.75	\$635,096.17	(\$9,752.58)	-1.51%		
Street Lighting	269,000	800	\$73,451.43	\$61,392.24	(\$12,059.19)	-16.42%	\$122,779.04	\$107,505.11	(\$15,273.93)	-12.44%		
Sentinel Lighting	255	1	\$24.90	\$25.78	\$0.88	3.53%	\$58.34	\$59.30	\$0.96	1.65%		
Unmetered Scattered Load	6,100	-	\$249.55	\$248.63	(\$0.92)	-0.37%	\$981.04	\$978.49	(\$2.55)	-0.26%		





Responses to Interrogatories from SEC

9 - SEC - 34

Page **1** of **16** 

## 9 - SEC - 34

## Reference:

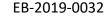
Exhibit 9, 15. With respect to account 1508 – Other, the Productivity Initiatives Deferral Account established in the EB-2008-0227 proceeding.

## Question:

- a. Please provide a full breakdown of the \$977,507 incurred.
- b. For each external expert retained:
  - i. Please provide a copy of their retainer, terms of reference, work plan, or similar document.
  - ii. Please provide a copy of their final work product.
  - iii. Please explain how the Applicant implemented their advice and/or recommendations.
  - iv. Please provide the savings achieved as a result of the implementation of their advice and/or recommendation and a breakdown of how those savings are calculated.
- c. Please explain how, if at all, the Applicant facilitated stakeholder involvement.

# Response:

a) Please see below breakdown of the Productivity Initiatives Deferral Account balance of \$977,507.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **2** of **16** 

OEB 1508			
Sub-Account: Productivity	Initiatives Deferral Account		
<u>Vendor</u>	<u>Description</u>	<u>Year</u>	Amount
Gartner	Energy & Utilities advisor IT Exec CIO	2013	\$ 85,000
Gartner	Energy & Utilities advisor IT Exec CIO	2014	3,200
Gartner	Energy & Utilities advisor IT Exec CIO	2015	60,000
Gartner	Energy & Utilities advisor IT Exec CIO	2016	4,500
Stratejm	SIEM - cyber security information and event mgmt	2016	95,500
Stratejm	SIEM - cyber security information and event mgmt	2017	100,000
Stratejm	SIEM - cyber security information and event mgmt	2018	100,000
FMR	Future State Supervisor	2010	100,000
FMR	Stores and Supply Chain process	2012	60,106
FMR	Engineering & Operations Review	2014	15,447
Marjorie Richards & Assoc	Review and redesign of non executive compensation	2014	701
Optimus SBR Inc.	Operational Workforce Review	2011	52,122
Optimus SBR Inc.	Establishment of an Enterprise Project Mgmt Office	2012	39,894
Optimus SBR Inc.	Enterprise wide project management office training	2014	17,148
Optimus SBR Inc.	Compensation package review	2011	8,000
Optimus SBR Inc.	Exec leadership strategy workshop	2011	39,878
Optimus SBR Inc.	Succession planning and leadership coaching	2014	63,504
Springboard	Single Utility	2013	15,000
Springboard	Pain Point Improvement	2015	40,000
Principle balance		-	900,000
Carrying charges up to Dec	ember 31, 2019		77,507
Total		•	\$ 977,507

- b) i. Please refer to attached documentation.
- b) ii. Please refer to attached documentation.
- b) iii and iv. the following responses are organized by external contractor:

# 2013 - 2016 Gartner Energy & Utilities Advisor IT Exec CIO:

iii)

ENWIN realizes the importance technology plays in its ability to deliver energy services to its customers in an efficient and cost effective manner. By using Gartner advisory services, ENWIN





Responses to Interrogatories from SEC

9 - SEC - 34

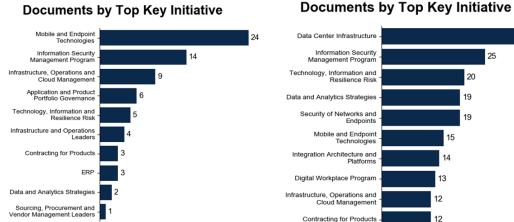
Page **3** of **16** 

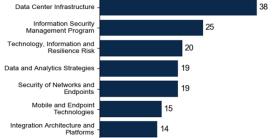
has achieved a number of productivity gains. It has reduced the time it takes to complete IT tasks, including market research, vendor and product evaluations and the development of IT processes to reduce operational and cyber risks. It has ensured optimal performance of its systems by reviewing emerging technology trends and implementing changes and tools prudently to keep ENWIN's infrastructure running with minimal risk and downtime. Access to research and toolkits also helped ENWIN fast track productivity projects such as mobility for field crews and cloud services for employee collaboration.

Gartner also provides contract optimization services which are key to assist ENWIN in evaluating and optimizing costs of IT contracts. The analytics, expertise and analyst guidance provided by Gartner helps ENWIN achieve the best possible terms by providing some insight into what other clients are able to negotiate with the specific vendors. This saves both time and money during the contract negotiation process.

The following graphs represent the key initiatives for which ENWIN sought Gartner advisory services.

2013 2015





12

The graph reproduced above represents a good view into the many initiatives where ENWIN sought Gartner advisory services. These typically represent productivity gains in many variations, such as streamlining of IT solutions, awareness of product offerings, discovery of industry best practices etc. Some of the specific discussions that were held between ENWIN and Gartner include: review of Microsoft enterprise licensing variations; review of potential audits to be conducted by Veritas, Microsoft and Oracle; review of virtual LAN (VLAN) corporate strategy, review of IT asset decommissioning policies; review of network performance measures.



Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 34

Page 4 of 16

iv.)

Yes, by streamlining IT operations, ENWIN was able to increase its system landscape, deliver great automation to employees and help achieve the goal of corporate-wide staff reduction.

## 2016-2018 Stratejm SIEM Cyber Security Information and Event Mgmnt & Pen Testing:

iii.)

As Cyber Security threats increased, it became apparent to ENWIN that existing in-house security resources and practices would not be sufficient to meet the future requirements. Development of in-house expertise and tools could take significant time and would not benefit from economies such as sharing of expertise and immediate access to advanced tools. ENWIN realized that short and long term risk could be minimized by using a partner to kick-start a security program and to complement and supplement internal functions. This partnership would be the best option not only from a cost perspective but from the productivity gains of having a partner that could quickly provide ENWIN with actionable items to improve its security posture. This included proactive planning, rapid detection and timely responses.

In 2016, ENWIN selected Stratejm as its' security partner and focus quickly turned to IT asset management. ENWIN's processes were manual which meant it was exposed to greater risk since it could not quickly and reliably identify which assets had security-related exposures or vulnerabilities. Stratejm helped ENWIN evaluate tools and implement both software and processes to automate the collection and analysis of the data. The asset management system also streamlined incident management, change management and release management processes. Productivity gains in this area allowed ENWIN to not replace a retiring IT staff member.

Vulnerabilities in systems can't be completely removed. Knowing what vulnerabilities exists, monitoring them and developing plans to eliminate, avoid or mitigate them all takes time and the threats are constantly changing. Stratejm was key in helping ENWIN select and implement tools that can efficiently respond to this changing landscape with minimal impact to staff.

ENWIN, like most companies, had been logging a wide range of IT-related activities, event and actions using logging tools on its network. The timely examination of these logs was not manageable in its current state, exposing ENWIN to unneeded risk. A Proof of Value project was started in which Stratejm, using advanced tools in their Security Operations Centre (SOC), collected the logs in real-time for off-line analysis and for correlating across multiple devices. Logs were reviewed around the clock so that threats could be dealt with as soon as possible. Using Stratejm's SOC proved very valuable not only in the productivity gains the IT staff experienced in no longer needing to perform this function but also in having the resource of the



EB-2019-0032 Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 34

Page **5** of **16** 

SOC at their disposal. During a forensic analysis event, ENWIN was able to upload to a Stratejm sandbox a potential virus that had installed itself on an ENWIN device but had been blocked for further extraction. In the protected sandbox, Stratejm was able to dissect and provide ENWIN with remediation steps that could be quickly executed. The productivity gain of using Stratejm expertise and their sandbox allowed ENWIN to quickly isolate the virus and prevent its spread, saving a potentially catastrophic event.

Threat Intelligence is evidence-based knowledge about existing or emerging threats to assets. It acts as an early warning system that can be used to provide awareness and guidance to help prioritize remediation activities. A variety of Threat Intelligence is available, such as from the Canadian and US federal governments and industry sources. Accessing, filtering and applying this knowledge can be a significant and ongoing effort requiring specialized staff expertise and experience. These services depend on the availability of underlying resources including security specialists to establish, maintain and operate the security services, including the associated processes and tools, and to plan the responses to known threats. This would be unmanageable for ENWIN to perform on its' own. Stratejm SOC provides this service, greatly improving ENWIN's productivity.

iv.)

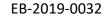
By being proactive and working with Stratejm, ENWIN has been able to better manage its cyber risks and avoid the costs and disruption caused by breaches while downsizing its IT staff.

## **2010 FMR Future State Supervisor Role**:

iii.)

As a result of FMR's observation and analysis of the ENWIN circumstances, the design/build process and the roles assumed by Distribution Supervisors relative to it became the focus of many of the consultant's recommendations for specific process improvements. These included:

1. That the "interaction" between Engineering (design) and Operations (construction) be improved and enhanced to drive early design improvements that would reduce inefficiencies and construction "down time" due to numerous "ad hoc" design adjustments. Repeatedly altering designs "on the fly" was contributing to elevated construction costs as crews were idled or redeployed due to design changes made in the field at the time of construction.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **6** of **16** 

2. That a collaborative process, leveraging the best attributes of Engineering and Distribution staff be established and formally adhered to and that each capital project expected to take more than two weeks to construct, be vetted through the process.

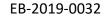
- 3. That staff be involved and lend their expertise to "non-traditional" portions of the design/build process to improve overall results (i.e. field personnel participate and offer suggestions to Engineering during the "design" phase and Engineering Techs attend regular site meetings in the field to continually review construction progress and anticipate and resolve any current or upcoming issues).
- 4. That the process has performance metrics attached to its significant elements and that both the number, content of meetings, design revisions and potential cost savings be estimated or captured and reported on.
- 5. That weekly progress reports outlining construction performance vs. budget and schedule be produced and provided to Supervisory personnel to allow for the provision of performance feedback and "course correction" in the event of undesirable results.
- 6. That the Distribution Supervisors be allowed to refocus their efforts toward ensuring more productive use of crew time through eliminating the need to "fire fight" and deal with daily changes to planned construction projects.

Following the presentation of their findings to the project steering committee, FMR assisted ENWIN in developing and establishing a methodology to address identified gaps in the design/construct process. Dubbed the "Collaborative Project Implementation Process", a summary of the process flow, roles and responsibilities and even the appropriate forms for tracking completion and content of each of the process stages. The process requires capital projects to be broken into phases, progressing from concept, through design, construction and finally to completion.

iv).

Throughout the process, the ENWIN Project Management Office (PMO) "provides support" in the form of:

1. Document control – all documentation related to the various stages of the process is submitted to the PMO for tabulation and review.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **7** of **16** 

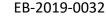
2. Performance metrics – the PMO assisted in the crystallization of measurement points and indices that are key to evaluating the health and success of the process.

- 3. Reporting the PMO facilitates and documents monthly meetings aimed at assessing and reporting on the Collaborative Project Implementation process in addition to their preparation of weekly reports that track progress on significant capital construction projects.
- 4. Assistance with analysis of data and interpretation of trends.
- 5. Estimates of savings resulting from implementation of FMR process improvements.
- c) Key to the concept and design phases is the formal requirement for "field personnel' (Manager of Distribution, Supervisor and construction crew Lead Hand) to participate in designing the project plan. Years of practical expertise are consequently drawn into the design at the earliest stages, allowing for elimination of unnecessary project elements, duplications, improper locations for plant and equipment and costly delays that were previously associated with idled crews awaiting ad hoc design changes during construction.

Distribution staff members are conversely sensitized to the myriad design concerns, technical considerations and regulatory compliance requirements faced by engineering staff when designing projects. Field personnel are consequently far less likely to make random or illadvised field adjustments that previously resulted in costly reconstruction efforts in order to comply with design requirements. Changes are proposed, debated and documented during "Design Review" sessions and submitted to the Project Management Office (PMO) for collation and tracking. The number and frequency of meetings are reported to senior management in Engineering and Operations on a monthly basis.

Prior to breaking ground, a "Construction Readiness" meeting is also held with field personnel, Engineering staff and responsible management representatives who review the design and ensure satisfaction of all requirements prior to staff deployment. Material availability, confirmation of locates, easements, pole locations and contractor availability are all discussed and confirmed to avoid the historic last minute delays that idle construction staff. Again, the meeting and its outcomes are documented and tracked by the PMO.

At this point in the process, the "lead" role is assumed by the Distribution Supervisor. Tasked with leading Construction Reviews in the field that involve the crew Leader, Supervisor and Engineering Technician, regular gatherings (minimum of two per week) are conducted on site





Responses to Interrogatories from SEC

9 - SEC - 34

Page **8** of **16** 

during the construction process. Again, key to this phase of the process is the participation of the Engineering resource in regular interaction with the crew, allowing issues to be anticipated and addressed prior to the point of causing crew delays and lost productivity. These meetings, both their number and content, are tracked by the PMO and performance metrics are reviewed monthly with senior management.

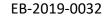
Once construction has concluded, a post project review, complete with a detailed variance analysis for all projects having final costs greater than plus or minus ten percent of estimate, is conducted. Experiences and information from each project are to be vetted with the central goal being the improvement of the estimating and construction processes.

# **2012 FMR Stores and Supply Chain Process Review**:

iii.)

The process review resulted in the identification of the top ten opportunities/recommendations:

- Reduction in obsolete inventory annual review occurs with identification resulting in scrapping, liquidation or retention.
- Buying based on usage patterns this is applied to reactive work inventory; planned project materials purchased based on detailed material lists from engineering.
- Kit material and stage for internal crews engineering produces detailed material lists for all planned work for stores to kit in synch with project staging.
- Alignment of bill of materials with material pick engineering produces bill of materials that prompts Stores to reserve, or to ensure that purchasing orders long lead time materials.
- Develop supply/build relationships with select contractors has not been fully exercised due
  to purchase policy that limits length of relationship with contractors, and therefore ENWIN
  continues to order materials.
- Rationalize inventory levels inventory levels reduced by approx. \$1.46M or 22 % for the 2016 to 2018 time frame.
- End to end planning and scheduling that connects logistics, operations and engineering a
  Planner Scheduler role creates, maintains and distributes an ongoing Hydro Planned Capital
  Project tracking summary to regularly apprise all involved functional areas of status and
  burn rates of all planned projects.
- Drop shipments to the site limited success in this area, and with pole delivery only.
- Reduce waiting times at Stores window has been significantly reduced because of internal kitting in advance of planned projects; reactive work material needs are filled by either crew truck stock or supply from Stores.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **9** of **16** 

Reduction in Stores staffing requirements - has not been addressed; however Stores personnel are also deployed to Site and Facilities tasks to avoid that area from increasing FTE's.

iv.)

The specific savings have not been measured in all areas, but tangible gains have been realized in the following categories:

- Reduction in obsolete inventory values
- Material purchases are based on historical purchases for reactive work, and planned projects materials are ordered based on accurate bill of materials from engineering and long lead time materials are identified by engineering at the prelim. design stage; project lag time has been reduced.
- Overall inventory quantities reduced, and hence value on hand reduced.
- Resource burn rate and hence availability due to Project tracking summary provides view to resource efficiency and therefore improved resource utilization, project forecasting and completion.
- Material (poles) delivery to job sites eliminates Stores double handling costs for this category.

Kit assembly by Stores reduces wait time of crew staff each day which equates to increased wrench time in the field.

c) Functional group representatives from purchasing, stores, supervisory personnel and management assisted through interviews with the mapping of current practices, outputs and barriers to success, to create a gap analysis, and lastly assisted with the establishment of the objectives, procedures/measures/workflow and required roles to achieve the intended outcomes.

## **2014 FMR Engineering & Operations Review:**

iii.)

This project occurred as a follow-up to the 2010 Future State Supervisor (Operations & Engineering Collaboration) and the 2012 Stores and Supply Chain initiatives to assess the work flow and processes from Capital Planning to Job Closure. Key checkpoints along the supply chain were identified and assessed looking at the then current Engineering and Operations interdependency and process compliance including Materials and reporting to Accounting.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **10** of **16** 

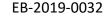
Advice and recommendations from the audit performed by FMR resulted in the following administrative, engineering, stores and operational changes:

- Project planning improvement involving engineering, operations, stores and EPMO has been implemented.
- Expectations regarding project milestones are communicated from EPMO to operations crews.
- Pre-design meetings are now a procedural requirement involving engineering, operations field management and EPMO precede each capital and material maintenance projects.
- Pre-construction meetings are now a procedural requirement involving operations field management, and/or contractor personnel and EPMO precede each capital and material maintenance projects.
- Project key metrics are reported monthly by the EPMO Planner Scheduler role reflecting project status in terms of burn rate in all categories.
- Engineering design bank is used for soft jobs and jobs cancelled by the City, or unplanned jobs that are introduced.
- Annual resource availability is calculated to identify volume of controllable work time.
- Design and operations capacity estimates during budget forecasting stage assist in determining project capacity.
- EPMO creates and issues a master schedule that reflects full project life cycles.
- Monthly production meetings occur involving EPMO, operations supervision, finance and engineering,
- Design engineering firm has been engaged to assist with capital project design.
- USF engineering standards are being adopted on a gradual basis to reduce upkeep required by engineering.

iv.)

Specific savings have not been calculated, but examples of where tangible gains have been identified are as follows:

- Project tracking the EPMO master schedule coupled with monthly production meetings identifies "reality" with respect to all project progress.
- Project engineering the collaboration between engineering and operations at the predesign and post design time frames have reduced early stage project re-engineering, as well as realizing alternative and economical design approaches.
- Field Crews reduced wasted crew time due to getting the design right the first time instead
  of modifying on the fly.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **11** of **16** 

• Stores - long lead time materials identified and ordered to satisfy project schedule and therefore more projects being completed on schedule; job kitting introduced with success on a small scale, but more work to do in this area.

- Third Party Engineering consultant engaged to assist with approx. 25% of annual engineering requirements which directly offsets the need for increasing internal resources and assist with achieving annual project plan schedules.
- c) Through all the initiatives the ENWIN stakeholder group (engineering, operations admin. and field staff, EPMO, stores and finance) were invited to review current state, assist with process and procedural revisions, and implement changes as designed.

## **2014 Marjorie Richards & Associates**:

The consultant did the review of the salary market review and implementation of the new salary grid based on initiatives.

# **2011 Optimus SBR Inc. Operational Workshop Review:**

iii.)

- Developed, implemented a 5 year corporate strategy that aligned all facets of the business -Single Utility Initiative
- Instituted a culture of change and promoted open communications to enhance organizational effectiveness and clarify roles - employee portal and wellness program; succession planning
- Identified core services and the base staffing levels necessary to ensure safe and reliable operations while maintaining desired levels of customer care Single Utility Initiative
- Refreshed ENWIN's HR Strategy to align with the corporate strategy.
- Created and implemented a Talent Mgmt. Plan aligned with the corporate strategy that addresses recruitment, training, and retention of resources and core knowledge; advanced and implemented plans for the hiring of positions that required extensive training and apprenticeships
- Conducted a coordinated process review to discover and to systematically eliminate overlaps and redundancies, and to optimize productivity - mobility solutions, outage mapping and notifications, GIS mapping.
- Capitalized on cooperative educational programs with local institutions to leverage specific expertise and resource gap fill intermittently.



Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 34

Page **12** of **16** 

iv.)

Strictly speaking, the objectives of this initiative were not focused on achieving savings per se. The exercise was undertaken to prepare ENWIN for the inevitable retirements and the realities of the shortage of skilled and qualified workers against the back drop of a short time frame, industry changes and the changing resource culture. Facing the reality of retirements and associated challenges, this exercise identified a number of considerations and necessary alternative approaches, and opportunities that would not only address the pending work force impacts and that would also affect the resource and operations costing for the future.

c)

- Corporate Strategy a five year Corp. Strat. is visited, refreshed, and approved annually by management and the Boards of Directors.
- Corporate Change and Open Communications the Single Utility initiative was implemented resulting in resource reductions through attrition, process review and revision, strategic investment in automation, and the implementation of more robust culture of communication through training, key metrics, employee wellness program, employee portal, talent identification.
- Core Services and Base Staffing Levels outsourcing opportunities in place in areas such as utility locates, engineering and design; overall staffing levels have been reduced over the past 5 years by approx. 14%.
- Human Resource Strategy talent mgmt. and succession plan have been developed and is a living document; performance management and incentive program is in place.
- Corporate Metrics in place and reviewed and approved by the Boards annually.

# 2012 Optimus SBR Inc. Establishment of Enterprise Project Management Office:

iii.)

ENWIN's established Project Management Office pre Optimus SBR engagement followed the foundational principles of the Project Management Body of Knowledge (PMBOK) however had not standardized across the enterprise foundational rules and tools for all corporate projects of any size. The consultant engagement was designed to identify gaps and areas of opportunity to enhance the project execution discipline and make specific recommendations for change that industry best practice has proven to avoid cost, schedule and scope overruns. ENWIN used the final report to fully document an Enterprise Project Management Office solution through a corporate System Level Procedure that has been in place since 2015.



Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 34

Page **13** of **16** 

iv.)

Over the 4 years following the implementation of their recommendations an estimated 100 projects, large and small, have moved through the execution phases governed by this procedure. Although immeasurable as to how much time and money has been avoided due to projects that may have otherwise experience scope, schedule or budget creep, anecdotally project success based on these 3 pillar parameters has been very good. Implementation of project management best practices is well documented as to the value it delivers to an enterprise in cost avoidance and overruns and from this it has been assumed that ENWIN experienced the best value for time and money through its various project implementations.

c) Implementation of the Enterprise Project Management Office methodology was designed and documented informed by a cross section of departments involved in project implementation (PMO, IT, Hydro and Water Operations). The solution was then put forward to senior management and was approved in concept in 2015 and formally documented in our Learning Management System in 2018 where all employees are trained and receive refresher training every two years.

# 2014 Optimus SBR Inc. Enterprise wide Project Management Office training:

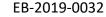
iii.)

Following work done in 2012 to define and establish an Enterprise wide Project Management Office, Optimus SBR was engaged to develop and deliver EPMO training to ENWIN staff in the PMO, IT, Engineering, Finance and HR groups around the model established in the previous engagement. This training and the underlying EPMO methodology was applied to project work performed by this staff in the following years.

iv.)

Over the 4 years following the implementation of the EPMO and staff training an estimated 100 projects, large and small, have moved through the execution phases governed by this procedure. Although immeasurable as to how much time and money has been avoided due to projects that may have otherwise experience scope, schedule or budget creep, anecdotally project success based on these 3 pillar parameters has been very good. Implementation of project management best practices is well documented as to the value it delivers to an enterprise in cost avoidance and overruns and from this it has been assumed that ENWIN experienced the best value for time and money through its various project implementations.

c) The training modules developed were review by ENWIN management to ensure it was consistent with the EPMO methodology established in previous years.





Responses to Interrogatories from SEC

9 - SEC - 34

Page **14** of **16** 

# **2011 Optimus SBR Inc. Compensation Package Review**:

iii.)

ENWIN implemented some of the recommendations from the report as follows:

- Increase the number of employees on four (4) day work weeks during collective bargaining in 2012, language regarding 10 hour crews was negotiated in the Hydro Division collective agreement and has been implemented.
- Reduce sick leave entitlement for new employees during collective bargaining in 2012, paid sick time for new employees was reduced from eighteen (18) days to ten (10) days in 2013.

# **2011 Optimus SBR Inc. Exec Leadership Strategy Workshop**:

iii.)

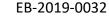
A number of recommendations were implemented including:

- The implementation of CEO town hall meetings to build a culture of change and open communication to enhance organizational effectiveness
- The creation and implementation of a talent management plan aligned with the Company's strategy
- Collaboration and participation with local educational institutions for positions requiring apprenticeships and more extensive training
- Implementation of a corporate score card
- Changes to the organizational structure to eliminate overlap and redundancies

## 2014 Optimus SBR Inc. Succession planning and leadership coaching:

iii).

As an outcome of a corporate restructuring completed in 2012 that established clear lines of accountability through the elimination of redundant positions and changes to existing roles in





Responses to Interrogatories from SEC

9 - SEC - 34

Page **15** of **16** 

order to meet business requirements, a review and redesign of non-executive compensation was undertaken in 2014. Facilitated by a third party subject matter expert, this review based on the new corporate structure, ensured ENWIN was in compliance to Pay Equity legislation and the resulting redesign of the compensation program to maintain the ability to attract, retain, motivate and reward qualified employees while remaining cognizant of our fiscal responsibility to its rate payers was achieved.

# 2013 Springboard Single Utility:

iii.)

- Single Utility Communication Concept development Employee Portal created and made accessible to all employees; SUI promotional video displayed at Town Hall meeting in Sept 2013; power point presentation Sept 2013
- Strategic priorities framework visual creation, design and printing displayed at numerous locations within all ENWIN buildings to promote and in support of the Single Utility Initiative.
- Communications staging developed ghant chart for required 2013 activities and related time lines for creation and dissemination of promotional materials in support of the Single Utility Initiative.
- Motion graphic concept and content in support of the SUI, demonstrating the efficiency of a single party locating buried utility plant vs. two or more.

iv.)

This initiative was undertaken with Springboard to create materials to aid in the promotion of the Single Utility Initiative that resulted in the following:

- Strategic Framework poster
- SUI video
- c) Stakeholders (employees and ENWIN Boards) were engaged throughout 2013 by means of Town Hall and other informational sessions to solicit support, approval and feedback.



Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 34

Page **16** of **16** 

# **2015 Springboard Pain Point Improvement**:

iii.)

In 2014 ENWIN was driving a broad initiative to reduce cost and headcount and through deep analysis discovered several process inefficiencies and duplications of effort. There were two primary areas identified in our strategy road map that presented potentially harvestable savings associated with back office data entry as well as maintenance of asset information in our primary systems of record (GIS/CAD and SAP). The engagement with Springboard was intended to validate the harvestable elements associated with the various process improvement opportunities previously identified. The work product from this engagement was used to prioritize process and system changes with direct links to harvestable costs and headcount. Those changes implemented from 2015 through today include standardization of Work Order process flows, mobilization of work order management to point of use eliminating paper and rework as well as automated system audit of data quality where information resides in more than one system.

iv.)

Over the 4 years following the validation report, ENWIN has implemented several process, system and organizational changes and has been successful in reducing two back office clerical staff previously performing work that was discovered as inefficient and/or duplicate. The consolidation of back office clerical staff into a "pooled" Support Services function facilitated using common processes and tools within the business and management has been able to reduce the compliment of staff in this area by 1 in each of 2016 and 2017. Current Support Services staff are paid \$28.80 per hour and applying a 40% overhead translates to \$40.32 per hour cost for ENWIN. This is an annual savings of \$167,731 per year.

c) Springboard's approach to the assignment included in depth interviews with all stakeholders as well as time studies associated with the process flows deployed at the time.

# **SERVICES AGREEMENT**

This SERVICES AGREEMENT [the "Agreement"] is made to take effect as and from the 17th day of September, 2012.

#### ENWIN UTILITIES LTD.

a corporation incorporated under the laws of the Province of Ontario with its Head Office located at 787 Ouellette Ave. Windsor, Ontario N9A 4J4 (hereafter "ENWIN")

-and-

# **OPTIMUS SBR INC.**

a corporation incorporated under the laws of the Province of Ontario with its Head Office at Suite 600, 30 Adelaide Street East, Toronto, Ontario, M5C 3G8 (hereafter the "Consultant").

**NOW THEREFORE IN CONSIDERATION** of the mutual covenants and promises set forth herein, and for other good and valuable consideration (the receipt and sufficiency of which is hereby acknowledged), the parties agree as follows:

# ARTICLE 1 SERVICES

- Services. The services to be provided (the "Services") are as described in the Statement of Work "EnWin Workforce Assessment and Future State Analysis" dated July 4<sup>th</sup>, 2012 [the "SOW"], which ENWIN has accepted. The Consultant shall provide the Services in conformity with the terms of the SOW accepted by ENWIN. The SOW is incorporated herein by reference and forms a part of this Agreement. The engagement of the Consultant is made on a non-exclusive and temporary basis.
- Section 1.2 Provision of Services. The Consultant shall supply and assign to provide the Services such qualified persons, being employees or independent contractors of the Consultant [collectively the "Personnel"], who are described in the SOW or otherwise are reasonably acceptable to ENWIN, and who the Consultant warrants and represents have the training and expertise to professionally and properly provide the Services contemplated by this engagement. Consultant's Personnel shall meet with and receive direction and instruction from management personnel designated by ENWIN from time to time. Consultant shall retain full responsibility for disciplinary and termination matters relating to its Personnel. Consultant is not exclusively engaged by ENWIN and may provide similar service to other persons, organizations and entities. Services will be provided at ENWIN's Windsor offices unless otherwise agreed upon by ENWIN from time to time.
- Section 1.3 Best Efforts. The Consultant shall use its best efforts to perform the Services in an orderly, efficient, skillful and professional manner through its Personnel. If the performance of any duty of the Consultant set forth in this Agreement is beyond the reasonable control of the Consultant, the Consultant shall nonetheless be obligated to:
  - (a) use its best efforts to perform such duty; and

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 1 2 of 17

(b) promptly notify ENWIN in writing that the performance of such duty is beyond its reasonable control.

Section 1.4 Performance Levels of Services. ENWIN reserves the right, in its sole discretion, to determine the acceptable levels of performance of the Services and to set specifications, boundaries, deadlines and benchmarks in respect of the provision of the Services. If the Consultant [including its assigned Personnel] do not perform the Services in accordance with the levels of performance reasonably established by ENWIN from time to time, ENWIN may on written notice terminate this Agreement without liability for further payment to the Consultant other than payment of Fees owing to the date of termination.

**Section 1.5** Further Activities of the Consultant. In connection with the provision of the Services, the Consultant shall perform the following:

- (a) if necessary to provide the Services, hire, retain, train and supervise at the Consultant's expense, and as employees of the Consultant and not as employees of ENWIN such competent Personnel as may be required to properly perform the Services and the Consultant's functions hereunder;
- (b) the Consultant shall comply with all applicable laws, courts, codes, ordinances, rules, regulations, orders, permitting requirements, and directives ("Legal Requirements") of any federal, provincial or local governmental body, board, authority, department, agency or court pertaining to:
  - (i) provision of the Services, including providing any notices, registrations and filings required by any Legal Requirements, and
  - (ii) the Personnel engaged or employed by the Consultant;
- (c) Provide ENWIN with evidence of Consultant's corporate existence, business and tax registrations, professional indemnity insurance, workers safety insurance coverage, registration of Consultant's business wherever required in respect to provision of the Services, and such other business related documents as ENWIN may from time to time reasonably request;
- (d) Prior to performance of the Services and thereafter as may be reasonably requested, the Consultant shall deliver to ENWIN in respect of the Personnel proof of exemption from Worker's Safety Insurance Board coverage or proof of coverage as ENWIN may reasonably require;
- (e) The Consultant shall take all reasonable safety precautions with respect to the provision of the Services by its Personnel and shall comply with all applicable Legal Requirements pertaining to the safety of persons and property and shall comply with any reasonable safety rules, measures or policies relating thereto (collectively, the "Safety Requirements"); and
- (f) to maintain Consultant's own records and data as may be necessary to document and carry out the Services, as applicable.

# ARTICLE 2 INDEMNIFICATION

- **Section 2.1 Indemnity.** The Consultant (including all of those for whom it is responsible in law) shall indemnify and hold ENWIN, its owners, affiliates, agents, employees, officers, directors and representatives harmless from any and all liabilities, costs and expenses (including but not limited to reasonable legal fees) arising from:
  - (a) any breach by the Consultant of any of its representations, warranties, covenants and obligations under this Agreement;
  - (b) any negligent act or willful misconduct of the Consultant or those for whom the Consultant is in law responsible;
  - (c) any breach of privacy or confidentiality legislation
- **Section 2.2** Survival. The provisions of this Article 2 shall survive completion of the Services hereunder or any termination of this Agreement.

# ARTICLE 3 COMPENSATION

- Section 3.1 Compensation. As full compensation for the Consultant's Services hereunder, ENWIN will pay the Consultant the fixed fee of \$27,950.00 [including contingency and disbursements], plus any applicable HST or other value added tax thereon in respect of the provision of the Services by the Consultant.
- Section 3.2 Invoicing & Payment The Consultant shall submit invoices to ENWIN on a monthly basis, in the form and manner stipulated from time to time by ENWIN. Invoices shall set out with sufficient particularity the Services relating to the invoice. ENWIN shall pay the Consultant within 45 days of receipt of an accurate and detailed invoice.
- Section 3.3 Additional Services. In the event that ENWIN requires the Consultant to perform or furnish any service or work which falls outside the scope of the Services as set out in the SOW, the Consultant shall be entitled to receive such additional remuneration therefor as shall be mutually agreed between the Consultant and ENWIN, negotiated by the Parties promptly and in good faith, in writing in advance of the provision of any additional service. If the Consultant shall commence to perform any services or work which it believes may fall outside the scope of the Services herein to be performed without first reaching an agreement with ENWIN, ENWIN shall not be obligated to pay any additional fee or compensation to the Consultant for such additional services.
- **Section 3.4 Travel**. ENWIN shall reimburse Consultant for reasonable travel expenses incurred by Consultant as required in the provision of the Services and as approved in writing in advance by ENWIN. Consultant shall include and particularize such travel expenses together with supporting documentation in the monthly invoice submitted to ENWIN.

# ARTICLE 4 REPRESENTATIONS AND OBLIGATIONS OF THE CONSULTANT

- **Section 4.1** Representations and Warranties. The Consultant hereby represents and warrants that:
  - (a) The Services will be performed in a competent manner in accordance with the provisions of the SOW, applicable professional standards, the Legal Requirements and the Safety Requirements;
  - (b) The execution, delivery and performance of this Agreement will not constitute a breach or violation of any contract or agreement to which the Consultant or its directors or officers or principals or affiliates is a party or by which Consultant or its directors or officers or principals or affiliates are in any manner bound; and
  - (c) Consultant has obtained all required business permits, certificates and licenses including HST or similar account numbers.
- Section 4.2 No Rights to ENWIN Name. The Consultant agrees that, without ENWIN's prior written approval, the Consultant shall not publish or engage in any advertising, sales promotion or publicity activity relating to the Services provided by the Consultant hereunder or otherwise, wherein the corporate or other business names utilized by ENWIN or any form or derivation thereof appears. The Consultant acknowledges and agrees that ENWIN has full ownership and control of all intellectual property rights associated with ENWIN's business name or any derivations thereof. The Consultant shall not market or advertise in any manner to suggest or imply any relationship with ENWIN other than having provided services in respect to the SOW.
- Section 4.3 Non-Solicitation. The Consultant covenants and agrees that while providing the Services and at any time during the term of this Agreement and for a period of one (1) year thereafter, neither the Consultant nor its principals shall, on Consultant's behalf or for any third party, directly or indirectly, induce, entice, hire or attempt to hire or employ any employee or consultant employed or engaged by ENWIN and during the same period, neither the Consultant not its principals shall directly or indirectly solicit, induce or entice any client or supplier of ENWIN which is known to the Consultant to cease to do business with ENWIN or for any such client or supplier to enter into business arrangements with the Consultant on Consultant's own behalf or for any third party in respect to the provision of the Services.
- Section 4.4 Confidentiality, Non-Disclosure and Non-Use. The Consultant acknowledges that, in connection with the Services, the Consultant will receive or have access to certain confidential business information of ENWIN, including but not limited to, information relating to the Services. For this purpose, "Confidential Information" shall mean all non-public information concerning ENWIN and the employees of ENWIN. Consultant agrees that it and its' Personnel will receive all such Confidential Information in trust to be used solely for the purposes contemplated by this Agreement and for no other purpose, and shall act as a fiduciary in respect to such Confidential Information.
- **Section 4.5 Enforcement.** The Consultant acknowledges that any breach of Sections 4.2, 4.3 or 4.4 will cause ENWIN serious and irreparable injury that shall be difficult to adequately measure by monetary damages, rendering an award of monetary damages an inadequate remedy. The Consultant therefore agrees that, in the event of a breach or attempt of a breach or threatened breach of its obligations under this Agreement, ENWIN shall be entitled to obtain temporary and/or permanent injunctive or other

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 1 5 of 17

discretionary relief from any court or courts of competent jurisdiction, enforcing the terms of this Agreement, and shall not be required to post a bond or other form of security as a condition to seeking or obtaining any such relief. Such discretionary relief is in addition and not in substitution of any other remedies available at law to ENWIN.

Section 4.6 Ownership of IP. The Consultant acknowledges that ENWIN shall, as between ENWIN and the Consultant [including the Consultant's Personnel], own all right, title and interest in and to any proprietary or intellectual property rights in and to the Consultant's work product provided in connection with the Services under this Agreement. The Consultant hereby for itself and for its' Personnel irrevocably assigns and conveys to ENWIN all of the Consultant's and Personnel's right, title and interest including any intellectual or proprietary rights, whether now exiting or created in the future in and to such work product. The Consultant agrees to execute such documents evidencing ENWIN's ownership of the foregoing rights and work product, as may be reasonably requested by ENWIN from time to time.

**Section 4.7** Insurance. Consultant will obtain and maintain the following, and deliver evidence thereof to ENWIN from time to time as may be reasonably requested:

- (i) Worker's Compensation Insurance coverage in accordance with all statutory requirements;
- (ii) Comprehensive general liability insurance (occurrence form) with minimal bodily injury limits of CDN \$2,000,000.00 per occurrence and property damage limits of CDN \$2,000,000.00 per each occurrence;
- (iii) Professional Liability insurance in an amount reasonably approved by ENWIN.

The insurance requirements set forth above are to fully protect ENWIN from claims by third parties. The placement of insurance does not relieve or release the Consultant, its agents, sub-Consultants, employees and invitees from, or limit their liability to any and all obligations in this Agreement.

The Consultant and its insurer or any person or entity claiming by, through, under or on behalf of the Consultant shall have no claims, rights, causes of action or rights of subrogation against ENWIN or its officers, directors, employees or shareholders based on any risks, losses or liabilities insured against under the insurance coverage required under this Agreement.

# ARTICLE 5 DURATION AND TERMINATION

Section 5.1 Term and Termination. This Agreement shall remain in effect for the period set forth in the SOW, and may be terminated earlier by either party for cause upon delivery of written notice to the other party. Consultant may terminate the provision of its Services under this Agreement upon delivery of written notice to ENWIN at least 30 days prior to the date of termination stated in the Notice, or upon the completion of the Services undertaken by the Consultant at the time of delivering such Notice, whichever date for termination is later. In addition, ENWIN may terminate the Services for convenience without any requirement for justification or explanation, and without further responsibility or liability to Consultant for any costs, expenses, or damages arising out of such early termination.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 1 6 of 17

Section 5.2 Compensation upon Termination. Upon any termination, the Consultant shall be entitled to receive from ENWIN the unpaid amount of its compensation provided under this Agreement to the date of termination, provided that ENWIN shall have the right to offset against any payment owing to Consultant under this paragraph any damages, liabilities, costs or expenses suffered by ENWIN by reason of the negligent or willful act or omission or breach of the Consultant.

# ARTICLE 6 GENERAL PROVISIONS

- **Section 6.1** Independent Consultant. In performing the Services hereunder, the Consultant is an independent contractor and not an employee, agent, joint venturer or partner of ENWIN. The parties confirm their intention to establish an independent consulting relationship only, and Consultant warrants and represents to ENWIN that Consultant is not dependent upon ENWIN for its income or business continuation.
- Section 6.2 Ownership of Materials. The Consultant shall, upon completion of the Services or sooner termination of this Agreement, deliver to ENWIN all written data and information generated by or for ENWIN in connection with the Services or supplied to the Consultant by ENWIN or its agents and all drawings, plans, books, records, contracts, agreements and all other documents and writings in its possession relating to the Services, and ENWIN shall have the right to use same without further compensation to the Consultant. Such data and information and all such documents shall at all times be the property of ENWIN.
- **Section 6.3 Authority of the Consultant.** The Consultant shall have no right or authority, express or implied, to commit or otherwise obligate ENWIN in any manner whatsoever.
- Section 6.4 Taxes and Contributions. The Consultant assumes full and exclusive responsibility and liability for withholding and paying as may be required by law all federal and provincial taxes and contributions with respect to, assessed against or measured by the Consultant's compensation or salaries or other contributions or benefits paid or made available to any Personnel retained, employed or used by or for the Consultant in connection with the Services.. No Personnel shall be or be deemed to be an employee of ENWIN and Consultant fully indemnifies and saves harmless ENWIN in respect to any claims or amounts resulting from such designation or deeming.
- **Section 6.5** Severability. Each provision of this Agreement is intended to be severable. If any term or provision hereof shall be determined by a court of competent jurisdiction to be illegal or invalid for any reason whatsoever, such provision shall severed from this Agreement and shall not affect the validity of the remainder of this Agreement.
- Section 6.6 Waiver; Consents. No consent or waiver, express or implied, by either party hereto to or of any breach or default by the other party in the performance by the other of its obligations hereunder shall be valid unless in writing, and no such consent or waiver shall be deemed or construed to be a consent or waive to or of any other breach or default in the performance by such other party of the same or any other obligations of such party hereunder. Failure on the part of either party to complain of any act or failure to act of the other party or to declare the other party in default, irrespective of how long such failure continues, shall not constitute a waiver by such party of its rights hereunder. The granting of any consent or approval in any one instance by or on behalf of ENWIN shall not be construed to waive or

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 1

limit the need for such consent in any other or subsequent instance.

Section 6.7 Governing Law. This Agreement shall be governed by the laws of the Province of Ontario.

Section 6.8 Time of Essence. Time is of the essence in the performance of this Agreement.

Section 6.9 Assignment This Agreement is not assignable.

Section 6.10 Execution in Counterparts and Electronic Delivery. This Agreement may be executed in counterparts, each of which shall constitute an original and both of which taken together shall constitute one and the same instrument. The parties contemplate and approve delivery of signed copies electronically [scanned pdf or fax transmission], and such documents electronically transmitted shall be deemed to be an original signed documents for all purposes.

TO WITNESS their agreement, the Parties have duly signed and delivered this Agreement to take effect as and from the date first set out above.

**ENWIN UTILITIES LTD** 

Signature of Authorizing Officer

TOUR ZUBER,

I have authority to bind the Corporation

OPTIMUS SBR INC.

)

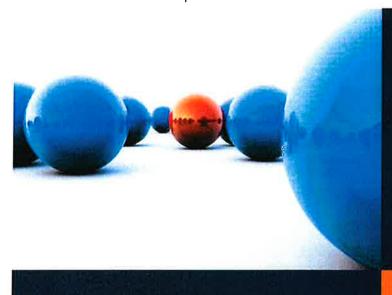
Print Name and Title

I have authority to bind the Corporation

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 1 8 of 17



Suite 600, 30 Adelaide Street East, Toronto, Ontario M5C 3G8 Tel: 416-649-6000 www.OptimusSbr.com



**Statement of Work** 

**EnWin Workforce Assessment and Future State Analysis** 

July 4, 2012

CHOICE TOOLS, PRECISION AIM, BOLD ATTITUDE.

Quotation Number | EUL05-120411

**Quotation Contact: Steve Klein** 

Vice President & Practice Manager

**Energy and Infrastructure** 

P: (416) 649-6016

E: steve.klein@OptimusSbr.com

Prepared for:
Michael McKinnon
Director, Organizational Development





# **TABLE OF CONTENTS**

1.0	EXECUTIVE SUMMARY	3
2.0	MISSION	3
3.0	TIMELINES	3
4.0	PROJECT SUCCESS	3
5.0	PLANNED APPROACH	4
6.0	DELIVERABLES	4
7.0	RESOURCES	5
8.0	BUDGET	5
9.0	ASSUMPTIONS	5
10.0	WORKSITE DETAILS	6
11.0	REPORTING	6
12.0	APPENDICES	8

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 1



#### 1.0 EXECUTIVE SUMMARY

EnWin leadership has recently directed much effort in formulating its Strategic Plan for the next 3+ years giving rise to a series of strategic actions which now need to be put into motion on a prioritized basis. One of the more significant tasks identified is the need to align EnWin's Human Resources with its Strategic Plan. While EnWin leadership in conjunction with the Human Resources department have begun to address this sizeable undertaking, senior executive have recognized the need for external support in order to effectively work through the numerous components of this exercise in a timely and progressive manner.

This Statement of Work represents the first of two phases which will be undertaken over the next year with the assistance of OPTIMUS | SBR to build on the work already done by EnWin in the areas of Talent Management and Succession Planning. This initial phase focuses on a current state assessment and gap analysis to identify issues and human resource needs to meet current/near-term and currently known future state organizational requirements, particularly as relates to mission critical and key operational positions.

The future state in this phase would embrace the possibility of a more integrated one-utility model i.e. EnWin Utilities and Windsor Utility Commission (WUC) combined, hereinafter referred to as EnWin. A second phase could then be possible wherein a series of scenarios could be developed to ascertain the potential additional human resources impacts associated with various potential strategic initiatives currently under consideration (e.g. Shared Services model with the City of Windsor, etc.)

#### 2.0 MISSION

To build/update a comprehensive workforce registry reflecting eligible, known (planned) and anticipated retirements, other projected staff departures, known hires (if any), and the most recent performance and potential assessments for all EnWin personnel. In conjunction with this, working with EnWin leadership mission critical and key operational positions will be identified.

This engagement will build upon the workforce analysis previously completed by OPTIMUS | SBR and the internal work done by EnWin over the past several months as outlined in the Action Item listing "The 2011 EnWin Succession Planning Program Implementation" (Appendix A), specifically Items #2 through #5. The outcome of this current state review and gap analysis will identify the issues and human resource needs to meet the ongoing requirements of the organization over the next 4 years (to 2016), particularly relative to key operational positions.

#### 3.0 TIMELINES

The estimated duration of the project is approximately six (6) weeks beginning on or about July 16, 2012, with an anticipated completion date prior to the end of August, 2012 (timing can be changed based on EnWin's needs).

#### 4.0 PROJECT SUCCESS

A successful project will deliver the following results at the close of the engagement:

- An understanding of the current state workforce, including skills and near term potential of the existing base of human resources
- An inventory of the projected EnWin workforce by 2016 fiscal year-end
- An outline of EnWin's ability to maintain current customer service and business operations levels over the next four years given the impact of an anticipated smaller workforce
- An evidence-based report which can in part be drawn upon to support business decisions and interactions with shareholders, industry regulators, and community stakeholders
- Provide the basis for a more comprehensive recruitment plan to address identified gaps/shortcomings particularly associated with mission critical and key operational positions

EUL05\_120411 EnWin Utilities Ltd.



 Provide the basis and approach for the planned Phase Two without undue overlap or duplication of effort

#### 5.0 PLANNED APPROACH

Our approach is integral, comprehensive and consultative. Stakeholder engagement is a fundamental component of our review process. The focus is on identifying hydro utility workforce requirements to ensure current customer support levels and established operations levels are at least maintained, over the ensuing four years ending 2016.

#### Efforts will include:

#### Step 1 - Project Launch and Planning

 This will involve the OPTIMUS | SBR team confirming with EnWin stakeholders the scope and scale of the project. The initial kick-off meeting will involve formalization of project milestones and key deliverables.

### Step 2 – Discovery and Current State Human Resources / Skills Review

- Receive internal documentation necessary to conduct a comprehensive assessment of the current human resources base of EnWin. This will include capturing all organization charts, position descriptions, documented performance levels, individual potential assessments, and a skills inventory.
- Required EnWin documentation will, in part, also include the earlier workforce analysis carried
  out by OPTIMUS | SBR and any documentation prepared by EnWin through its internal work in
  this area.

#### Step 3 - Future State (2016) Organization

- This will involve 3 or 4 stakeholder interviews and capturing known operational changes in order to map out the anticipated 2016 year-end organizational requirements for EnWin.
- During this step, mission critical and key operational positions will be identified.

#### Step 4 - Human Resources / Skills Gap Analysis

- Working with EnWin stakeholders, a SWOT analysis will be conducted identifying Strengths, Weaknesses, Opportunities and Threats (Risks) when comparing the Human Resources inventory/assessment and the requirements to at least maintain EnWin operations and customer services levels during the 4-year study period ending 2016.
- Primary focus will be on mission critical and key operational positions.

#### Step 5 - Final Report and Recommendations

- The project and its key findings including the methodology, current resource base assessment and future state operations definition, human resources skills and gap analysis will be assembled and delivered to the project sponsor.
- Recommendations to assist leadership in moving forward with EnWin's overall talent management plans will also be provided once reviewed and agreed by the project sponsor.
- An executive presentation will outline key findings for senior management to establish buy-in to next steps and to facilitate apprising key internal and external stakeholders.

#### 6.0 DELIVERABLES

 Workforce Assessment Report - A fact-based registry of the current workforce, reflecting: eligible, known and anticipated retirements; other potential human resource departures; known hires (if any); most recent documented performance ratings, and potential assessments

EUL05\_120411 EnWin Utilities Ltd.



- Future State (2016) Organizational Requirements An probable EnWin organization chart representing the planned structure as at fiscal 2016 year-end, identifying mission critical/key positions
- Final Report and Executive Presentation A report summarizing the project and its key findings and
  recommendations to assist leadership in moving forward with EnWin's overall talent management
  plans. The executive presentation will outline key findings to facilitate apprising key internal and
  external stakeholders
  - \*\*Note: Throughout the development of deliverables, approval will be sought from Project Sponsor\*\*

### 7.0 RESOURCES

On average 1.5 full-time equivalent (FTE) resources will be deployed by OPTIMUS | SBR at EnWin's preferredclient blended rate of \$1,300 per FTE day and will include the efforts of the following:

- John Whincup Advisor and Executive Liaison
- Steve Klein Practice Lead and Project Oversight
- Nick Mirkovic Project Manager
- Mark Hodgson Business Analyst

Additional resources may be drawn from the OPTIMUS | SBR talent pool as deemed necessary by the Practice Lead.

### 8.0 BUDGET

- Total cost fixed at \$27,950 + approved disbursements + HST.
- Disbursements, at cost, most likely will be associated with travel to and accommodation in Windsor as resources will be drawn from our Toronto talent pool.
- Total Work Effort is projected to be 21.5 FTE days over a six (6) week period.
- This Work Effort has been set based on the extent of work done by EnWin as stated by the project sponsor; if it is found during Project Launch (Step 1 above) that there is more Work Effort required, this will be revisited with the sponsor and, if necessary, the Work Effort and associated Price reset by way of written approval from EnWin.
- Payment terms: Invoiced Monthly based on Percentage Completed.
- Standard OPTIMUS | SBR General Terms and Conditions apply or EnWin contract/PO/work order (where non-conflicting, OPTIMUS | SBR terms apply).
- OPTIMUS | SBR will request written approval from EnWin prior to any project scope or pricing changes.
- If additional requirements emerge necessitating mutually-agreed work, a pro rata extension can be provided ad hoc and normally within 24 hours.
- Any added or follow-on work will be confirmed by written amendment(s) to this proposal, signed by both parties.

### 9.0 ASSUMPTIONS

- The documentation and/or reports developed by EnWin in completing Action Items #2 through #5, as referenced in Section 2.0 above and outlined in Appendix A, are sufficiently detailed to minimize extensive rework and fact-finding
- Any other pertinent documentation for this project, such as current organization charts, position
  descriptions, staff listings, details of known near-term hires, etc. is readily available for review /
  deployment by the project team
- EnWin staff and stakeholders will be available for interviews if, and as necessary
- Working sessions and directional resets as required will be arranged in advance
- Key stakeholders briefed in advance and prepared to participate in meetings and workshops

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Scheduled meetings will not be cancelled or rescheduled to later dates

### 10.0 WORKSITE DETAILS

• OPTIMUS | SBR staff will work both on- and off-site based on circumstance or need.

### 11.0 REPORTING

Once-weekly progress touch-base meetings with Sponsor (or delegate) will be held either in person
or by way of telephone/video conference call to ensure progress towards completion remains on
track, and that target delivery is reachable within defined project scope.

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### **RE: EnWin Workforce Assessment and Future State Analysis**

Authorized by OPTIMUS SBR INC.	
Signature	July 4, 2012 Date
John Whincup	Executive Director
Name	Title
Accepted by EnWin Utilities Ltd.	
Signature	Date
Name	Title



### 12.0 APPENDICES

APPENDIX A - THE 2011 ENWIN SUCCESSION PLANNING PROGRAM IMPLEMENTATION, ACTION ITEM LISTING

EUL05\_120411

EnWin Utilities Ltd.

Time Line - as of August 1, 2011

### The 2011 ENWIN Succession Planning Program Implementation

_									,				12				V			
	Priority (H, M, L)		Reep.	Start Date	Status % Complete	Target End Date	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11.	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-1	2012+	Comments
#1	н	Communicate Organizational Goals and Objectives - Define Long-term Business Strategy	Max, Mike, John Stuart, Gregg					Review	with Max	0										
		Role out of Succession Plan Model								-0031		1-2:17			111				-	
#2	н	Update line of site analysis of the potential for current employees for the promotion to supervisory positions through to the position of VP.	Mike, Gregg, VPs & Directors	Sep-11	100%	Nov-11				•										7 5
		Identification of Key/Critical positions																		
#3	н	1. Update analysis of retirement information through a report to the Governance Committee of the Board. 2. This report is the first step in analyzing the depth of our organization with respect to our ability to draw on internal resources to fill the void of employee skill and experience that will be created by loss of an employee from the organization with the most pending reason the significant turnover of employees through retirement. 3. Identify immediate hot spots/occupations of concern. 4. How much time we have to deal with replacement or reorganization.	Mike, Gregg, John Stuart	Sep-11	100%	Nov-11						2.0			Control and the control of the contr					1 7
#4	Н	Perform gap analysis and assess impact on Startegic Plan and ability to fulfill business needs in a timely manner.	Max, Mike, John Stuart, Gregg	Sep-11	70%	Dec-11			. 50				-							After step 4 the following broad based action steps 6 - 10 will be reviewed, reassessed and prioritized.
#5	H	Identify business units where relatively large numbers of incumbents are eligible to relire and examine Intent to retire or leave.	Mike, John Stuart, Gregg	Sep-11	100%	Nov-11														Will be towards, reassessed that produced.
		Identified Workforce Developmental needs															_		-	<b>.</b>
#6	м	Identify required skill sets for recruitment, replacement or reorganization.  Analyze and report on recruitment and retention issues for electricity sector and projected completion for professional and skilled trades within sector.  Determine need for strategy by group or job classification. (Not all poefficing can or should be identified ee critical from a succession planning perspective.)	HR/ Directors	Jan-12		May-12			ě											6
#7	м	identify the management leadership stributes, skills and experiences essential for success in the effective execution of the business strategy.	HR/Directors	W7				Review	with Max			-				+1				
#8	н	Develop a methodology tool to measure and assess the degree to which prospective candidates possess the required competencies essential to the effective execution of the business startegy.	HR/Directors		e."			Review	with Max	(Budge	17 Bey In	(זי								
#9	M	Role out pilot for 1st line supervisor preparatory college/university courses.	HR/Directors	Dec-10	100%	Dec-16									*			T		E 5
#10	M	Identify the gaps between the required and actual competencies for each prospective candidate and create an individual training plan to develop and enhance the required competencies.	HR/Directors	Jan-12	OK.	Mar-12					CE.			-						
#11	м	identify internal candidates who have been confirmed as suitable successors to positions requiring re-placement	HR	Jan-12		Feb-12			-											
#12	М	Develop an action plan for the above candidates to assume the targeted positions identified in plan	HR/Directors	Feb-12	1	Mar-12							12		-				-	
#13	M	Identify anticipated vacancies over the next 3, 5 years, and 10 years requiring re-placement through external resources	HR/Directors	Sep-11		Nov-11														jė

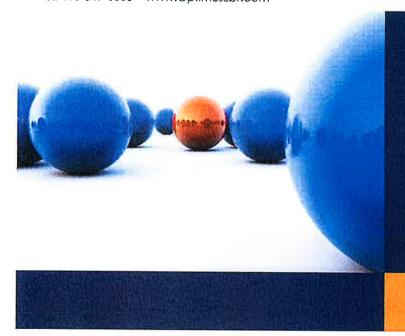
Time Line - as of August 1, 2011

### The 2011 ENWIN Succession Planning Program Implementation

	LILLE STORY					-														
	Priority (H, M, L)	Action Item	Resp.	Start Date	Status % Complete	Target End Date	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	2012 +	Comments
14	M	Develop an action plan with external resources to acquire required talent for anticipated vacancies	HR	Jun-12		Ongoing													•	
		Training & Development					112								- 5	- 1				
15	M	Review shared training available with other LDC's, external providers etc.	HR	Mar-12		Jun-12			-		ŧΙ						-	-		
16	М	identifly employees for advancement who would benefit from identified career training and development (Look at TAPD Program as a tool)	HR/Directors	Jun-12	The state of	Origoting	ja.												•	
		Determining workforce trends and predictions																	-	
17	M	Review electricity sector labour market context and means toward building workforce capacity	HR	Jan-12		Mer-12										-				×
18	M	Creatively market industry to local community/colleges and universities of various occupations and career options	HR/Directors	Jan-12	(6)	Mar-12														
19	M	Analyse Recruitment & Retention priorities for the Industry	* HR	Jan-12		Mar-12										-				
0	M	Develop any required recruitment strategies	HR	Jan-12		Mar-12								•		-				
		Membring / Job Shadowing / Coaching / Leadership Development																12		
!1	M	Creatively utilize the skills and abilities of current staff to reect to our quickly changing environment and demographic landscape	HR/Hydro Operations Pilot	L AL	100%															
		Employee Retention				79)														
2	M	Implement Internal marketing of career opportunities accluding self indentification process	HR/ Communications	Jen-12		Mar-12								-		-				*
23	M	Strategies and incentives to retain employees	HR/ Benefit Consultant	Jan-12	-4	Mer-12														
24	M	Maintain market competitive salary and wage rates for identified occupations of concern.	HR		90%										k "	62			4	
		Employee Satisfaction													9					
25	M	Proceed with University of Windsor study/survey of Enwin employees on social skills, cultural values in the workplace which can used to develop training programs.	HTR	Sep-11		Dec-11									(+					
		Monitor and Evaluate Succession Management Plan											200						•	
26	M	Implement various methods of formal & informal methods of reporting and monitoring progrees of departmental plans	HR	Jun-12	81	Ongoing			1										+	



Suite 600, 30 Adelaide Street East, Toronto, Ontario M5C 3G8 Tel: 416-649-6000 www.OptimusSbr.com



**ENWIN** Utilities Ltd.

**Executive Leadership Strategy Workshop** 

September 8<sup>th</sup>, 2011

CHOICE TOOLS. PRECISION AIM, BOLD ATTITUDE.

Quotation Number | EUL02-110907

Prepared for:
Victoria Zuber,
Vice President of Finance & CFO







### **TABLE OF CONTENTS**

1.0	EXECUTIVE SUMMARY	. 3
	1.1 MISSION	.3
	1.2 TIMELINES	.3
	1.3 PROJECT SUCCESS	. 3
	1.4 PLANNED APPROACH	. 3
	1.5 DELIVERABLES	. 4
	1.6 RESOURCES	. 4
	1.7 BUDGET	<u>,</u> Z
	1.8 ASSUMPTIONS	. 4
	1.9 WORKSITE DETAILS	. 4
	1.10 REPORTING	
2.0	CONTEXT OF THE ENGAGEMENT	. 7
3.0	OBJECTIVES	.8
4.0	PROJECT APPROACH	.9
5.0	INVESTMENT REQUIRED	13
6.0	THE ACCOUNTABILITY FRAMEWORK® SYSTEM	1 /



| 3

### 1.0 EXECUTIVE SUMMARY

### 1.1 MISSION

ENWIN Utilities Ltd. (ENWIN) leadership has identified the need to move forward with the development of a Strategic Plan with focus on near-term priorities. This plan will identify operating and environmental issues, workforce concerns, Ontario Energy Board (OEB) challenges, and additional factors as discovered.

OPTIMUS | SBR is proposing to assist ENWIN develop a Hydro strategy framework by leveraging components of our well-reputed and highly successful Accountability Framework® System. The Accountability Framework® System is fully explained in Section 6.0. This will be conducted through a one-and-a-half day Executive Workshop designed to align senior leadership and solidify ENWIN's Vision and high-level strategy.

### 1.2 TIMELINES

The estimated duration of the project is approximately six weeks with initial activities to begin on or about September 12, 2011. The anticipated completion date with final deliverable and debrief is October 25, 2011 (timing can be changed based on ENWIN needs).

The timing for the one-and-a half day Executive Workshop session, to be held at OPTIMUS | SBR's Toronto Office is expected to be as follows:

Day One Morning Session – Thursday, October 13, 2011 8:30am-12:00pm Day One Afternoon Session – Thursday, October 13, 2011 1:00pm-5:00pm Day Two Morning Session – Friday, October 14, 2011 8:30am-12:00pm

### 1.3 PROJECT SUCCESS

A successful project will deliver the following results at the close of the engagement:

- Increased awareness among ENWIN Executives of the operating and strategic planning environment
- Understanding among ENWIN Executive leadership of the main success factors of the organization
- Executive commitment for a formalized strategic plan and associated accountabilities
- Leadership alignment towards the specific next steps to move the high-level plan forward to execution
- Agreed upon plan to secure key stakeholder and Board buy-in.

### 1.4 PLANNED APPROACH

Our approach is integral, comprehensive and consultative. The focus is on identifying the priorities of ENWIN's strategic planning requirements and the key areas to focus on during the development of a strategy plan framework & future action plan..

Efforts will include:

Step 1 - Project launch

Step 2 - Discovery and Information Scan

Step 3 - Workshop Preparation

Step 4 - Facilitated Workshop for ENWIN Executives (Developing the Accountability Framework®)\*

Step 5 - Final Report and Project Closeout

Note: The Accountability Framework® System and the various modules which compose it are fully explained in Section 6.0.



4

### 1.5 DELIVERABLES

- Discussion Document Document developed through a series of stakeholder interviews and/or surveys with senior executives and Board Members to identify current operating and environmental issues, workforce issues, Ontario Energy Board challenges, other regulatory and organizational priorities. Additionally OPTIMUS | SBR's experience with industry best practices will be leveraged to further develop areas of study. The Discussion Document will identify key factors which may be focused upon during the Facilitated Workshop.
- Accountability Framework® Graphical representation solidifying ENWIN's Vision, how to achieve results, leadership alignment, and a high-level strategy and framework to build the strategic plan.
- Facilitated Workshop and Summary Summary of the notes and findings documented during the one-and-a-half day facilitated workshop to be conducted from Thursday, October 13 to Friday, October 14, 2011 in the offices of OPTIMUS | SBR.
- **Final Report** An evidence-based report recording the outcomes from the workshop and the overarching strategies and key priorities. To be developed in the context of ENWIN's strategic pillars.
  - \*\*Note: Throughout the development of deliverables, approval will be sought from project sponsor\*\*

### 1.6 RESOURCES

The following resources will be deployed to this engagement with ENWIN:

- Project Lead and Workshop Facilitator John D. Whincup
- Subject Matter Expert and Co-facilitator Steve Klein

### 1.7 BUDGET

- Total cost fixed at preferred client discount of 10% is \$24,750 + approved disbursements if any + HST.
- Total Effort is estimated as 16 consulting days over a six week period
- Payment terms: Invoice Monthly based on Percentage Completed
- Standard OPTIMUS | SBR General Terms and Conditions apply or ENWIN contract/PO/work order (where non-conflicting, OPTIMUS | SBR terms apply).
- OPTIMUS | SBR will request written approval from ENWIN prior to any project scope or pricing changes.
- If additional requirements emerge necessitating mutually-agreed work, a pro rata extension can be provided ad hoc and normally within 24 hours.
- Any added or follow-on work will be confirmed by written amendment(s) to this proposal, signed by both parties.

### 1.8 ASSUMPTIONS

- ENWIN stakeholders will be available for interviews if and as necessary, with any working sessions
  and directional resets as required arranged in advance. Key stakeholders briefed in advance and are
  prepared to participate.
- Corporate and operational documentation pertinent to the project will be readily available to project staff as necessary.
- Scheduled Meetings will not be cancelled or rescheduled to later dates.

### 1.9 WORKSITE DETAILS

OPTIMUS | SBR staff will work on- and off-site based on circumstance or need.

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### 1.10 REPORTING

• Frequent interactions and communication with Sponsor (or delegate) will ensure progress towards completion remains on track, and that target delivery is reachable within defined project scope.



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### RE: ENWIN UTILITIES LTD. EXECUTIVE LEADERSHIP STRATEGY WORKSHOP

Authorized by OPTIMUS SBR Inc.

Jowley	September 8, 2011
Signature	Date
John D. Whincup	Executive Director
Name	Title

Accepted by ENWIN Utilities Ltd.

Signature

Sept. 12, 2011

VICTORIA ZUBER

CFO UP FINANCE





### 2.0 CONTEXT OF THE ENGAGEMENT

ENWIN Utilities Ltd. (ENWIN) is the Local Distribution Company responsible for the distribution of electricity and maintenance and service of electrical infrastructure within the Windsor area. ENWIN is further responsible for providing fleet, billing, collections, credit, financial services, human resources, customer service, and information technology services to Windsor Utilities Commission and the City of Windsor.

Recent years have been some of the more difficult economically which has significantly impacted the Windsor area. Led by a change in operations of major manufacturing customers, the struggling local community has placed increased challenges on ENWIN as the utility has experienced reduced demand for its energy and electrical services while having to play a more significant role in implementing positive change within Windsor and the surrounding area.

In addition to this the Utility and Energy sector is undergoing rapid transformations involving all aspects of the industry including: environmental issues, shifts in public perception, workforce requirements and labour issues, Ontario Energy Board (OEB) challenges, and technological developments, such as Time of Use billing, Smart Grid initiatives, and alternative energy sources. Consequently it is critical that the senior leadership of Ontario Local Distribution Companies (LDCs) have a thorough understanding of objectives, Mission, Vision and Values, operating environment, and priorities which inform the organizations' Strategic Plan.

OPTIMUS | SBR is proposing to facilitate a one-and-a-half (1.5) day workshop with ENWIN leadership for the purpose of creating the overarching strategies and near-term priorities for the Hydro Utility. The workshop and supporting activities will develop key success factors, leadership alignment and next steps to secure Board and key stakeholder buy-in to move the development of a strategic plan to the next phase.

OPTIMUS | SBR is well experienced at developing organizational strategies and facilitating Senior Leadership sessions for leading Ontario utilities and public sector organizations. OPTIMUS | SBR's experience and best practices facilitating workshops and developing strategic plans and initiatives within the Energy Sector have been gained through partnerships with current and past clients including:

- Ontario Ministry of Energy
- Ontario Power Authority
- Ontario Hydro
- Ontario Power Generation
- Hydro One Networks Inc.
- Toronto Hydro Corporation
- Veridian Corporation

- PowerStream Inc.
- Enbridge Gas Distribution
- Enersource
- Atomic Energy of Canada Limited
- Canadian Electricity Association
- EDA/Mearie Group
- Horizon Utilities

To guide the development of strategies and priorities OPTIMUS | SBR will leverage elements of its highly successful and trademarked Accountability Framework® System (AFS). This system is fully explained in Section 6.0 below. For this engagement OPTIMUS | SBR will leverage the first module — The Accountability Framework®. Through the facilitated workshop we will work with senior leadership to develop a straightforward construct that confirms ENWIN's organizational Vision and identifies key Success Factors, including definitions, which will be used to focus all organizational and individual effort and to measure future progress and strategic drivers. This workshop will align leadership and establish a firm commitment to formalize strategic actions and associated accountabilities to move the plan to corporate-wide execution.





### 3.0 OBJECTIVES

### TIER 1

- To prepare a discussion document as a foundation for the senior leadership workshop.
- To develop an accurate understanding of the focus, specific view, and priorities of ENWIN held by senior executives and Board Members.
- To prepare and deliver a co-facilitated workshop leveraging OPTIMUS | SBR's Accountability Framework® System.
- To develop, present, and debrief a report detailing the outcomes of the workshop, high-level strategic framework and proposed next steps.
- To plan the optimal approach to attain stakeholder and Board buy-in to the strategic framework.

### TIER 2

- To ensure that project efforts do not interfere with existing ENWIN business operations.
- To ensure a continuous transfer of knowledge to ENWIN staff on tools, techniques and general methodology.
- To offer a fresh, objective perspective untainted by internal biases or hidden agendas.



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### 4.0 PROJECT APPROACH

OPTIMUS | SBR will leverage its extensive work with energy and utility sector clients to successfully provide a strategic planning workshop for ENWIN's executive leadership.

Our engagement begins with a detailed project launch phase designed to scope the boundaries of the project, confirm project success factors, and validate project timelines.

Our approach then focuses on a Discovery and Information Scan designed to provide the OPTIMUS | SBR engagement team with a detailed understanding of the current operating environment with ENWIN. This will primarily focus on internal research and stakeholder engagement but will also include elements of external research into significant industry forces as well as leverage OPTIMUS | SBR's industry best practice knowledge. The outcome of this step will be a data set to be used in the development of a Discussion Paper to provide a fact-based foundation for the Executive Workshop. The Discussion Paper will address the major issues, priorities, and major trends impacting ENWIN.

The Executive Workshop will leverage the Accountability Framework® (The Accountability Framework® System is described in detail in Section 6.0) which will be developed through the one-and-a-half day facilitated session. The session will confirm ENWIN's organizational Vision and set the path for aligning the organization to achieve key success factors. The outcome of the workshop will be a high-level strategy and framework to build the strategic plan and attain Board and key stakeholder buy-in.

The final step of the engagement will involve the production of an Executive Report. The report will outline all key findings, summarize the workshop results, and set the path for potential next steps. In addition to this the OPTIMUS | SBR team will work with ENWIN leaders to ensure successful knowledge transfer to facilitate future Action Plan development.

The following is a preliminary outline of the approach that OPTIMUS | SBR will follow for this engagement. Upon award of contract, our approach and further details may be refined and adjusted to ensure maximum effectiveness and fit within the ENWIN environment. Our proposed approach comprises five steps:

Step 1 - Project launch

Step 2 - Discovery and Information Scan

Step 3 - Workshop Preparation

Step 4 – Facilitated Workshop for ENWIN Executives (Developing the Accountability Framework®)

Step 5 - Final Report and Project Closeout

### STEP 1: PROJECT LAUNCH-1 DAY

The initial Step of the project will be designed with the goals of confirming the projects scope, creating an agreed-upon timeline, and confirming workshop attendees. The tasks conducted in this Step will allow for the creation of a solid working relationship between the OPTIMUS | SBR team and the ENWIN Executive team.

### 1.1 SET UP & KICK-OFF

 This will involve the OPTIMUS | SBR team confirming with the ENWIN leadership the scope and scale of the project. The initial kick-off meeting will involve the formalization of project dates, workshop attendees, and key deliverables.

### 1.2 DOCUMENT COLLECTION

Receive internal documentation necessary to conduct a comprehensive engagement.
 These documents may include but are not limited to, Business & Strategy Plans, Mission Vision and Value statements, and organizational charts.

| 10



### STEP 2: DISCOVERY AND INFORMATION SCAN - 5 DAYS

This step of the engagement will draw on internal and external research and analysis of the operating and strategic planning environment within ENWIN. Additionally OPTIMUS | SBR will ensure that industry experience and knowledge of industry best practices are applied to fully research the engagement. The objective is to create a data set to be used in the development of a Discussion Paper and provide evidence based materials for the workshop session.

### 2.1 INTERNAL DOCUMENT REVIEW

OPTIMUS | SBR will review the documents provided by ENWIN to develop an accurate
understanding of the current state strategic direction and priorities. This review will give
the project team an accurate understanding of the policies and procedures,
documented challenges and opportunities, strategic planning history, services,
organizational structure, categorization of staff, and current activities at ENWIN.

### 2.2 STAKEHOLDER ENGAGEMENT

- Phone interview and/or surveys will be deployed by OPTIMUS | SBR to engage key ENWIN stakeholders. The objective will be on identifying the specific focus and priorities of the Hydro organization and document specific viewpoints.
- It is expected that major themes and topics to be reviewed will include current operating and environmental issues, workforce requirements, OEB challenges and organizational priorities.
- Prior to the interviews OPTIMUS | SBR will build out interview scripts to identify the key issues to be investigated as well as leverage industry experience and best practices knowledge to expand discussions.

### 2.3 EXTERNAL DISCOVERY AND ANALYSIS

- The external discovery will focus on the identification of key operations within other leading LDCs. OPTIMUS | SBR will apply its research abilities and methodology to document and chart relevant findings.
- OPTIMUS | SBR will also leverage our energy and utility sector expertise to ensure relevance and applicability to ENWIN's operating environment. This will involve the research of industry accepted accreditations, standards, processes, and methodologies as well as the practices of industry leaders.

### STEP 3: WORKSHOP PREPARATION - 3 DAYS

This step of the engagement will develop the Discussion Paper to be reviewed prior to and during the Executive Workshop. This paper will highlight key areas to address and review the priorities and viewpoints identified during stakeholder engagements. Additionally OPTIMUS | SBR will develop a workshop framework and agenda to successfully facilitate the agreed-upon objectives of the session.

### 3.1 DEVELOPMENT OF DISCUSSION PAPER

- OPTIMUS | SBR will summarize and prepare the key findings of the Discovery and Information Scan into a Discussion Paper format for review by workshop attendees.
- The Discussion Paper will involve a review and analysis of the importance of the various issues, opportunities, and priorities identified as well as the current state summary.
- Included in the Discussion Paper will be findings regarding the impact of ENWIN's last task-oriented strategic plan and the current absence of a strategy.



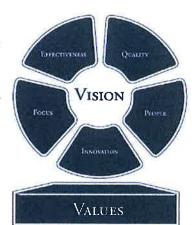
### 3.2 WORKSHOP PREPARATION

- Prior to the workshop OPTIMUS | SBR will develop and produce all materials and tools (aids) to be used during the Workshop delivery.
- This will include the development of session objectives, desired outcomes, identified challenges, format, and a finalized agenda.
- OPTIMUS | SBR will also deliver to ENWIN attendees all required materials 2-3 days prior to the session date to ensure ENWIN stakeholders are property briefed and prepared for the session.

### STEP 4: FACILITATED WORKSHOP FOR ENWIN SENIOR EXECUTIVES (DEVELOPING THE ACCOUNTABILITY FRAMEWORK®) – 3 DAYS

OPTIMUS | SBR will leverage its experience in facilitated services to conduct a one-and-a-half day Executive Workshop for ENWIN leadership for the purpose of creating the overarching strategies and near term priorities of the organization. It is expected attendees will include: Max Zalev, President and CEO; Victoria Zuber, Vice President of Finance and CFO; John Wladarski, Vice President Hydro Operations; Michael Duben, Vice President Customer Relations; Mike McKinnon, Director Corporate Services and Organizational Effectiveness. It is also understood that Max Zalev will not be in attendance at the Day One afternoon session.

- 4.1 DAY ONE MORNING SESSION (Thursday, October 13<sup>th</sup>, 2011 8:30am 12:00pm)
  - The first morning session will be dedicated to reviewing the Discussion Paper, openended discussion, and probative questions with all attendees.
  - The outcome of the morning session will be to achieve a consensus surrounding the real priorities and issues currently facing ENWIN and the executive team.
- 4.2 DAY ONE AFTERNOON SESSION (Thursday, October 13<sup>th</sup>, 2011 1:00pm 5:00pm)
  - The afternoon session of day one will be dedicated to confirming areas to further focus
    on.
  - This will involve reviewing and discussing what actions, activities, and initiatives have been successful and which have not.
  - By the conclusion of the afternoon session attendees will have worked with OPTIMUS | SBR facilitators to address the key issues and priorities identified within the context and challenges of past successes and failures and the current and near-term environment.
- 4.3 DAY TWO MORNING SESSION (Friday, October 14<sup>th</sup>, 2011 8:30am 12:00pm)
  - The second morning session will focus on exercises to develop the Accountability Framework<sup>®</sup>.
  - This will solidify the Vision agreed to by ENWIN executives and align senior leadership in the establishment of strategic drivers.
  - OPTIMUS | SBR facilitators will work with ENWIN executives to develop the high-level strategy and framework to build the strategic plan designed to guide



The Accountability Framework®

EUL02-110907

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This session will also serve to ensure that ENWIN executives are able to achieve stakeholder and Board buy-in for the new strategic framework.

### STEP 5: FINAL REPORT AND PROJECT CLOSEOUT - 4 DAYS

The final Step in the engagement begins with the development and production of a final report and executive debrief summarizing the work completed including the results of the Executive Workshop. The OPTIMUS | SBR team will also work to ensure that key knowledge and IP is transferred to ENWIN leadership to allow for continued success and future development.

### 5.1 FINAL REPORT AND EXECUTIVE DEBRIEF

- OPTIMUS | SBR will create a Final Report and Executive Debrief for the senior management team and key stakeholders as required. The Final Report will contain the conclusions, key findings, and agreed-upon decisions made during the workshop.
- OPTIMUS | SBR will work with the key stakeholders and senior executives to fully explain all findings and outcomes for the engagement

### 5.2 KNOWLEDGE TRANSFER AND PROJECT CLOSEOUT

The final step of the engagement will involve a summary of the work completed, the
delivery of the final report, and the hand-off of any relevant IP to ENWIN's Executive
team.



### 5.0 INVESTMENT REQUIRED

STEP 1 – PROJECT LAUNCH – 1 CONSULTING DAY  1.1 Setup & Kick-Off  1.2 Document Collection	\$1,300
STEP 2 – DISCOVERY AND INFORMATION SCAN – 5 CONSULTING DAYS  2.1 Internal Document Review 2.2 Stakeholder Engagement 2.3 External Discovery and Analysis	\$6,500
STEP 3 –WORKSHOP PREPARATION – 3 CONSULTING DAYS  3.1 Development of Discussion Paper  3.2 Workshop Preparation	\$4,500
STEP 4 – FACILITATED WORKSHOP FOR ENWIN SENIOR EXECUTIVES (DEVELOPING THE ACCOUNTABILITY FRAMEWORK®) – 3 CONSULTING DAYS  4.1 Day One Morning Session  4.2 Day One Afternoon Session  4.3 Day Two Morning Session	\$4,500
STEP 5 – FINAL REPORT AND PROJECT CLOSEOUT – 4 CONSULTING DAYS  5.1 Final Report and Executive Debrief  5.2 Knowledge Transfer and Project Closeout	\$5,200
INTELLECTUAL PROPERTY INVESTMENT	\$5,500
INVESTMENT SUBTOTAL	\$27,500
LESS 10% PREFERRED CLIENT DISCOUNT	-\$2,750
TOTAL INVESTMENT REQUIRED	\$24,750

### Notes

- 1. HST will be added to total, as will any disbursements at cost specifically required and approved by ENWIN.
- 2. Payment terms: Effort to be invoiced monthly.
- 3. OPTIMUS | SBR will be delighted to discuss how we can assist ENWIN in moving forward with the required Action Plan to execute the strategy and/or to avail some of the other tools within our Accountability Framework® System.





### 6.0 THE ACCOUNTABILITY FRAMEWORK® SYSTEM

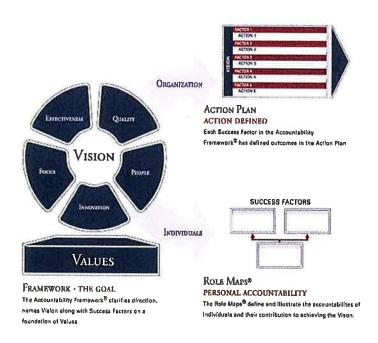
The Accountability Framework® System (AFS) is our trademarked approach to guiding ENWIN through the development and potential future implementation of its strategic plan and offers the key to organizational success. For this proposed engagement we will be leveraging the first module of the Accountability Framework® System: The Framework®. This tool will achieve ENWIN's desire to develop a strategic framework. Section 6.2 contains information regarding the remaining steps of the Accountability Framework® System and the benefits of their potential implementation at ENWIN in a future engagement.

OPTIMUS | SBR has successfully implemented the Accountability Framework® System in many organizations throughout Canada. These organizations now have a lasting impact and applicability through the years they have implemented OPTIMUS | SBR's Accountability Framework® System. Past clients benefiting from the Accountability Framework® System include;

Hydro One Networks Inc.
Northumberland Hills Hospital
Toronto French School
Joseph Brant Memorial Hospital
Orillia Soldier's Memorial Hospital
Hotel Dieu Grace Hospital, Windsor
Canadian Dental Association
Ontario Nurses Association
The Michener Institute
Ontario Tourism Marketing Partnership

Infrastructure Ontario
Sun Life Financial
Trillium Health Centre
Mississauga Halton CCAC
Toronto East General Hospital
The Ottawa Hospital
St. Joseph's Healthcare, London
Ontario Dental Association
Ontario Health Quality Council
United Church of Canada

OPTIMUS | SBR has the required expertise to align both organizational and individual performance to ENWIN's vision and mission. Being professionals in both strategic and operational alignment and accountability, we have become well known for our ability to successfully implement the Accountability Framework® System as a core system within our client organisations.





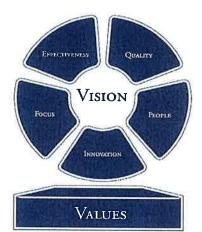
CORPORATE SCORECARD
MEASURING RESULTS
The Corporate Scorecard graphically measures
significational success against each Success Factor



INDIVIDUAL CONTRIBUTION ASSESSMENT TRACKING RESULTS Individual Contribution Assessment assesses results and behaviors and is a tool for spathing and development.



### 6.1 BUILDING THE ACCOUNTABILITY FRAMEWORK® (TO BE DEVELOPED DURING THE PROPOSED EXECUTIVE WORKSHOP)



Through a process that is research based and proven through nearly 30 years of successful implementation, we facilitate workshop sessions for the development of a simple construct that will confirm the organizational Vision and Mission at within ENWIN.

Strategy begins with the Utility's leadership — confirming the Vision and identifying the five key Success Factors, including definitions, which will be used to focus all organizational and individual effort and to measure future progress in key areas.

An environmental analysis will also assist in identifying the Mission and Values of the organization which would then be supplemented by research gathered from additional OPTIMUS | SBR tools such as; statistical data, environmental scans, literature reviews, and SCORED and PEST frameworks.

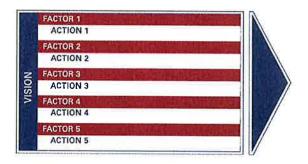
Another element of the Framework is to identify new Values as well as highlight existing Values that may have been previously identified. This would include a thorough review of the previous strategic plans currently in use by ENWIN. From this we will build definitions and associated behaviours that illustrate how each Value is modeled in day to day interactions. This is crucial to building a culture that is in full alignment with the Vision, Mission and Success Factors.

### 6.2 STRATEGIC ACTION PLAN, ROLE MAPS®, SCORECARDING, AND INDIVIDUAL CONTRIBUTION ASSESSMENT

It is important to note that Strategic Action Plans, Role Maps®, Scorecarding, and Individual Contribution Assessments are not within the scope of this proposal. However, in order to fully understand the flexibility, completeness, and potential of future engagements to take full advantage of these Accountability Framework® System components their descriptions are provided below. Additionally, these steps would form the starting point for any future engagements with ENWIN.

### STRATEGIC ACTION PLANS - (Outside the Scope of this proposal)

Our approach to implementation begins with a high level Strategic Action Plan aligned with the Vision and essential Success Factors defined by leadership.



The Strategic Action Plan integrates and aligns all organizational initiatives to the achievement of the Vision and is sorted by the five Success Factors identified in Step One. The Strategic Action Plan becomes the organizational agenda linking effort, responsibility and measurement. It identifies the specific key organizational objectives and the measures that ENWIN will use to gauge success.

16



The first draft of the Strategic Action Plan is typically developed in workshops with the Senior Management Team for confirmation by the Board of Directors. The second draft confirms the key organizational objectives and measures and adds key high level long-term actions and assigns responsibility; identifies resource requirements; implementation time tables; with milestones and measurement clearly articulated.

### SCORECARD CREATION - (Outside the Scope of this proposal)

Evaluation of the Strategic Plan is essential for success. Our Scorecarding system would measure and evaluate the objectives identified and defined by ENWIN's leadership and ensure alignment to the Mission, Vision and Values within the framework and, by extension, action plan.

A key step in the development of the any organizations' Strategic Plan is to articulate the clear set of measurements and present them in a straightforward format for evaluating and communicating results. The flexibility of the Accountability Framework® System allows for information to be input into ENWIN measurements and reporting formats or implemented in an OPTIMUS | SBR developed report format. This would provide on-going reporting of the Strategic Priorities.

The process for developing and using score-carding would be based on the Action Plan. For each strategic theme, several outcome indicators are determined. For each indicator we use a tightly facilitated process to identify appropriate outcomes. The measures are included in the Action Plan and are used to build more detailed plans and measures that are used to effectively deploy strategy throughout the organization.

The ultimate outcome of the scorecard creation would be a comprehensive set of measurements that would effectively encompass the entire strategy and yet can be summarized in a few key governance level measures that can monitor the strategic plan's effectiveness.

### ROLE MAPS® - (Outside the Scope of this proposal)

The Role Map® is unique to the Accountability Framework® System and is trademarked. It is a visual presentation of the role that each layer of the organization has in attaining the Vision of the organization in each of the identified Success Factors.

OPTIMUS | SBR would develop a straightforward process that effectively ties ENWIN's strategic plan with implementation at every level of the organizations. Our Role Mapping process identifies individual accountability for each Success Factor element of the Strategic Plan.

The Role Map® names individual role accountabilities by defining and affirming each individual's contribution to the organization. Within ENWIN this exercise may involve the Board of Directors, Senior Management Teams, Directors, Managers, and other key stakeholders as identified by either organization and OPTIMUS | SBR. Role Maps® help everyone understand how they fit into the 'big picture' and form the basis for performance management.

Each Role Map® is developed in draft form during initial facilitation sessions then, if necessary completed in a second follow up session. For larger groups a third development session and further presentations may be required to achieve full engagement. At the end of this process ENWIN would have clear roles and accountabilities for the entire organization aligned with the Accountability Framework® System

The Primary goals of the Role Maps® are to

- 1. Clearly communicate the Vision and Success Factors as well as Strategic Priorities
- 2. Identify gaps and overlaps in accountabilities
- 3. Engage and align the larger

Once Role Maps® are created, a Validation alignment exercise will be held where members of all levels of the organization look closely at each other's role. There is considerable interchange and learning during this process as groups review and clarify the inter-relationship of roles of the total team. The process reduces overlap and duplication. The deliverable is a final version of each person's accountabilities within the



Accountability Framework® that can be published or posted on the organizations intranet for ease of communication.

### THE INDIVIDUAL CONTRIBUTION ASSESSMENT (ICA) - (Outside the Scope of this proposal)

The Individual Contribution Assessment would be a powerful tool to integrating personal performance with ENWIN's Vision and Strategy. The ICA incorporates three components into everyone's personal requirements:

- 1. Setting and achievement of personal objectives aligned with organizational priorities
- 2. Improving role execution, aligned with ENWIN's Success Factors or Strategic Priorities
- 3. Demonstrating values-based behaviours common throughout each organization.

The ICA is a powerful Performance Management system that could be implemented in a paper or web-based platform for successful implementation by ENWIN.

OPTIMUS | SBR will be delighted to discuss how we can assist ENWIN in moving forward with the required Action Plan to execute the strategy and/or to avail some of the other tools within our Accountability Framework® System.





Stores and Supply Chain July 09 - July 27, 2012 Process Review

Prepared by:

Management Resources Focused

735 Avenue Road Toronto, Ontario M5P 2J9 V: 416-489-8885 F: 416-544-0204 Web: www.fmrcg.com



Agenda



■ "Day In the Life Of" Studies

■ Potential Improvements

■ Top Ten List

■ Next steps











Focused interviews - purpose

## Capture perceptions of people interviewed

Confirm direction and gain additional insight into

issues and opportunities

Allow the team to target specific issues

■ Introduce ourselves to the organization





### None Business Metrics Clear Operating Objectives Roles and Responsibilities Ę MORE Work Processes Poor Employee Skills 20 at this time to make the improvements? each topic Years in position improvements 40 Other needing resolution to improve performance at Enwin? III. Purpose of the Interview: Gain knowledge of the operation Obtain the person's perceptions of the company strengths Obtain the person's perceptions of the areas of opportunity Attach detailed comments and quotes on individual sheets for Fair DATE 30 Probability of success in achieving the Š 20 Management/Employee Relations What one thing would you do to improve performance at Enwin? Teamwork & Internal Cooperation How improvements will show up Good Improvement Percentage: Logistics Effectiveness Organization Structure Planning/Scheduling Years with company is the climate right Yes Areas of responsibilities ? How area is measured ? What report do you receive that provides you with the best feedback on your performance? Communication Excellent Why? Why? II. Background (Why we are here) IV. Confidentiality Statement Circle One Circle One Success: sanss 4 m 1 4 0 NAME VI. Company Strengths: TITLE V. Job Background VIII. Improvement of IX. Probability I. Introduction: VII. Barriers: X. Climate

## Focused interviews - purpose





8 focused interviews conducted

### Barry Leavitt

- Walt Argent
- ■Amy Fratarcangeli
- John Doan
- Marilee Quinlan
- Susanne Sauve
- ■Paul Gleason
- Mike Douglas



## People cited many strengths...

Teamwork

(5)

Any training that's required is provided (2)

Good people

(2)

People have the desire to do the right thing

If our processes were on the rails, people would follow them

People are supportive and motivated

Everybody is nice

It's a good place to work

Our organization structure makes sense

We do an excellent job at supplying power and water to our customers

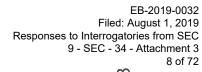
Our business is insulated from the "real world"

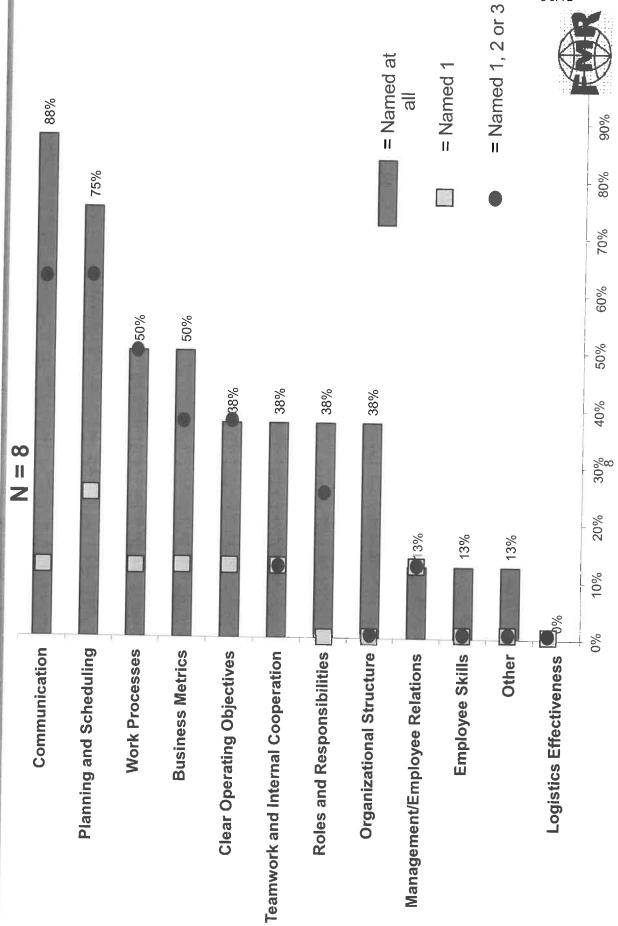
Front line supervisors are the strength of the company (but without much support)

We have an accessible, open door organization structure

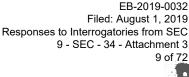
We've made significant advances in technology (GIS, etc.)

Focused interviews - issues











# People see information & direction as requiring focus

"What one thing would you do to improve performance at EnWin?"

(2) Communication, planning and scheduling

Get people to follow SAP

Establish the process rules and follow them

Develop some simple metrics and use them to manage

Tell people their responsibilities and give them the authority to deliver

Set up multi disciplinary work teams or a steering committee to break down the silos

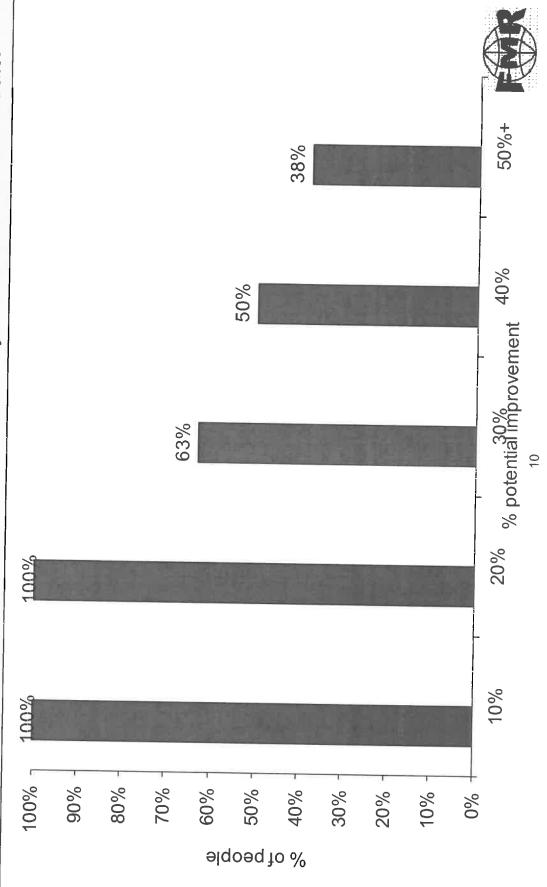
Provide strong leadership and direction

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 10 of 72



## Focused interviews - potential improvement









### on reduced cost and improved productivity Performance improvements are focused

## "How will improvements show up?"

Lower inventory levels

4 Better procurement at better prices

Save money

**4** 

(7)

Improved productivity

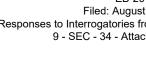
Fewer stock outages

Better vendor relationships = better prices

Less frustration from top to bottom

Get the trucks out on time

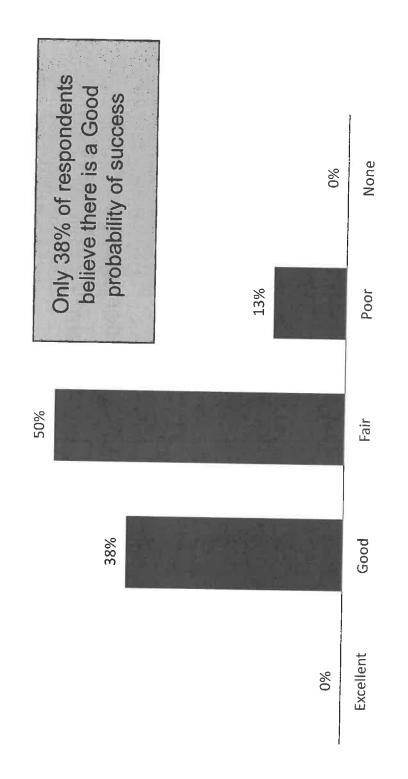
More people doing their jobs better and sooner





# Focused interviews - probability of success

"What do you think is the probability of success in achieving the improvements?"



**Probability of Success** 



Because it needs to be addressed

Why good?

- "Excellent" is too hard. If senior management supports this and gets us help, it will work
- changes. The risk is that management may not provide To put things in place requires cultural and organizational enough commitment to support the change
  - We need the trust of our customers, we need help in making changes and we need to be lead by our leaders





Why fair?

- People are resistant to change and fall back into their (2) comfort zones
- We need to have all levels of management recognize the
  - It depends on the approach. We know it has to be done but need to run the business and get the tools to do it we also know that we can't do it ourselves



### ENWIN

Why poor?

change. It's necessary for them to support us for us to We need to improve but I don't think the hierarchy will make changes here. It needs support from top to bottom

## Focused interviews - climate



# "Is the climate at EnWin it right to work on issues of this type?"

■People are open minded, approachable and willing to help.

It's absolutely the right time but it's losing energy. Early in the year we got the message from the top that "We have to get better." The mayor and the board said "No rate increases for five

years,"

100%

%06

80%

%02

%09

SAP is in place and it's here to stay. Let's get hydro and water on the same page and remote inventory working too. There's a thirst for improvement.

It's as obvious as writing on the wall. If you want to continue running this business, you have to have the tools to run the business and know how to use the tools.

■We proved with SAP that we aren't so set in our ways that we won't make changes,

Time is always good for change.

20%

40%

30%

20%

10%

%0

■Because it's needed. (2)





16



## Issues - communication

- Purchasing needs information about Capital jobs, such as "What is the start
- 9 proper SAP training We need accurate information and we need communicate.
- We just don't communicate from one department to another no planning!
- We have a lot of nice people but no one questions anything, we just "do things".
- Inventory levels are changed but the users don't find out until they run out of something.
- We buy high cost items, like transformers, way too early because nobody communicates the planned work.
- Material gets taken after hours and the paperwork doesn't catch up and then later we just write it off.
  - What's the corporate goal? Does anybody know and if so, could they tell me?
    - We just don't communicate. I learned about our restructuring on the radio.
- We operate out of three facilities and EnWin and WUC don't talk to each
- We would rather "do" than plan. That way we think our communication if accurate.

## Issues - planning and scheduling



- We don't have the details. We schedule jobs "between January and December".
- Too many jobs are "field engineered".
- Our planning isn't 100% wrong but it feels like it's getting close.
- A lot of our planning for today happens in the morning of the same day.
- Planning is not nearly robust enough causing us to waste money in a lot of ways. Poor productivity, poor quality, poor buying - we need to focus.
- We need the right information and the right dates entered into the system or things will fall apart.
- If we plan properly, why do we end up with purchases being made on



Issues - metrics



- It seems like the only way to get information is by asking I.T. All we have with our new system is what we had before.
- We don't know what we need to measure, let alone how to do it.
- As a manager you need KPI's to support the goals of the corporation and to know where you stand. These are completely lacking here from top to bottom.
- We have a lot of data but we don't pay much business attention to it. Your DRIP word fits us.



- First we need to define our processes, then follow them and then enforce them. (2)
- Our current processes don't work or aren't being followed.
- We need to look at them and understand them because people ask for changes in the system with no regard for processes.
- It looks like we didn't have enough people involved with or new system so we still have a lot of people acting like they're in implementation mode, not user mode.
- Our lack of process awareness is huge. If you ask 10 people how something is done, you will get 10 answers.
- We definitely need to identify and fix our processes. Who is responsible for keeping documents updated?



Filed: August 1, 2019

9 - SEC - 34 - Attachment 3

Responses to Interrogatories from SEC



## Issues - clear operating objectives

- What are they? There should be no question about what they are and they should roll down from the corporate objectives right to the front line.
- Does anybody know what the corporate goals are?
- How would I know if I'm meeting them?
- We have objectives at a high level but they're not broken down into tactical objectives where we can take action.





### ENWIN

# Issues - teamwork and internal cooperation

- We have a lot of silos. There's a lot of "he's not doing it, why should 1?"
- We are trying to get people to take responsibility for their own inventory and they tell us it can't be done and then they ignore us.
- Engineers create a work order and then operations will change it but not tell anybody.



## Issues - roles and responsibilities

- We have a governance model that's broken. Do we know the "go to" person?
- Policies and procedures should be done at a level above
  - People might say they know who is supposed to do what responsibilities? Even if they exist, do they reflect what we really have clearly defined roles and but do we need to do? supervisor.





## Issues - organizational structure

- Who is supposed to talk to us about what we're doing? We need performance management.
- I don't know how decisions get made or communicated because I don't know where they start or how far they go.
- Our decision making barriers starts with the hierarchy at the top. Most decisions need board approval and they only meet 4 to 6 times a year and if you don't get an answer, you just wait until next time.

24





Issues - management/employee relations

cause instead of just putting a band aid on the not doing the work. They should identify the root You want the supervisor to manage the resources problem.

### Conclusions

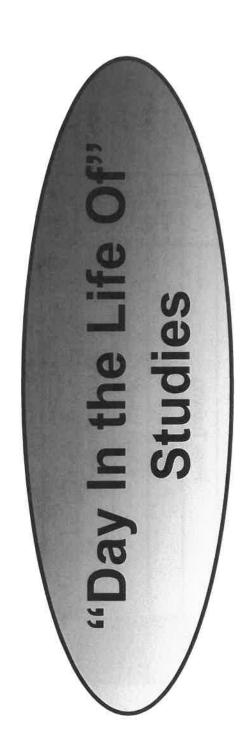


- are all levels, at ■ EnWin Utilities employees, refreshingly frank and honest.
- There appears to be a good understanding of the need and opportunity for improvement.
- Work Processes will ameliorate many of the issues ■ The predominant opinion is the need to improve described as communication barriers and lessen the Communication, Planning and Scheduling. Improved skepticism of those who doubt the company's ability.
- People want to improve the company but are concerned about whether Senior Management is committed or not.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 27 of 72











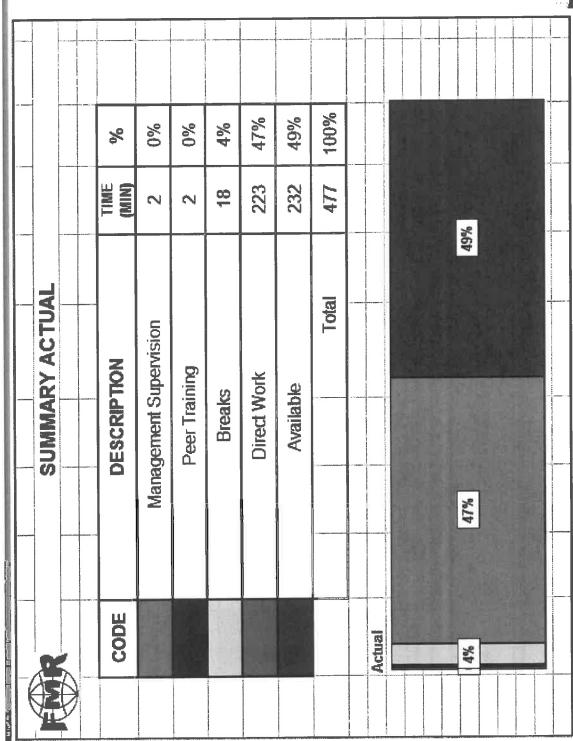
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EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 29 of 72





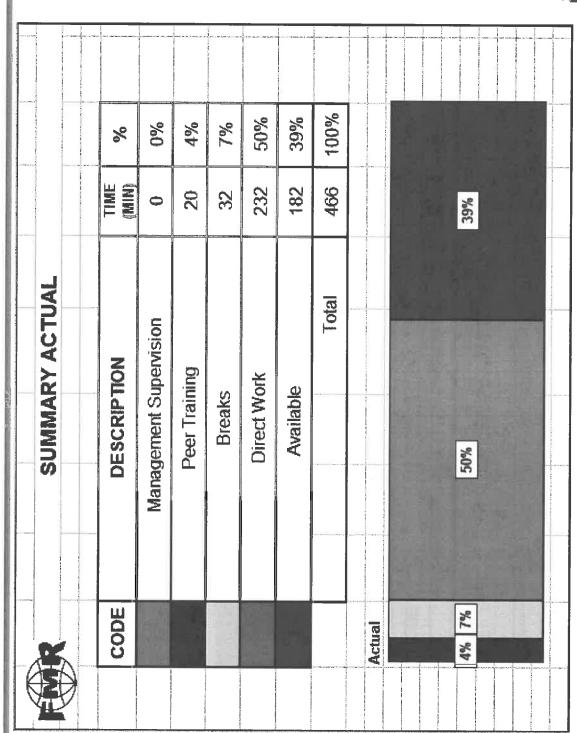


### **Bob Duggan**





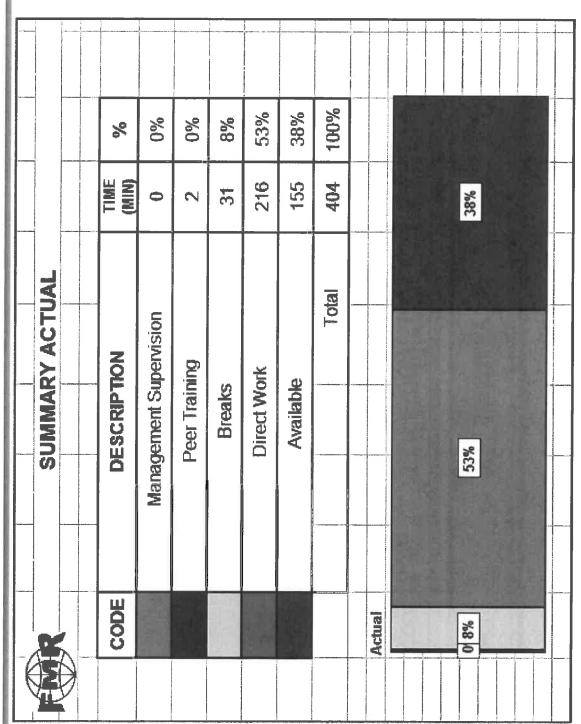
Jeff Wilson







Rhonda Lagace Peacock







Walt Argent

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Mike Douglas



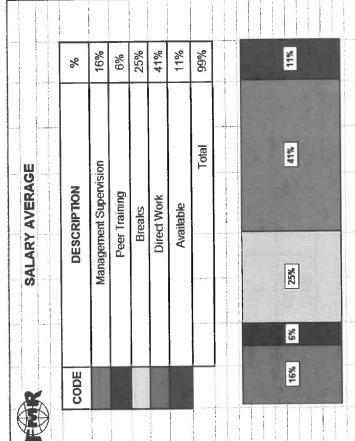
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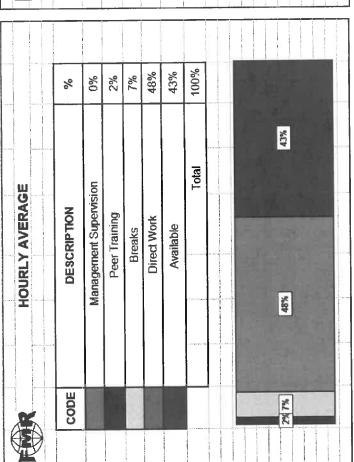
EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 34 of 72





Average - Hourly and Salary





EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 35 of 72









# Automation: Potential Improvements

- In process: automatic PO Generation for standing Contractors. Saves Buyer time.
  - Historical Usage available in SAP. Determine patterns for purchasing.
- Set safety stock based on historical usage.
- Create Pick List for Ordering at Stores. Can customize in SAP or do data dump into other software.
  - Capacity functionality exists in SAP i.e. for setting annual Forecast. Assess SAP customization or use of interface.
- Item and Date. Purchasing works to system. Should not have System as relates to Purchasing is tied to Material Quantity, past due dates or fictitious dates in system.
  - SAP is limited. i.e. Unplanned issues report which is available Knowledge and understanding of functionality as it relates to





Automation: Potential Improvements

Use of e-forms to replace manual paper where applicable.

Not reconciling unplanned issues to a Reservations when an alternative material is used. Leads to inventory build up. Use of Microsoft Project Enterprise version. Not as flexible as other planning software. i.e. P6

Reserved or inventory on hold not flagged in system.

## ENWIN

Performance Metrics: Potential Improvements



- Low cost is only factor for Purchasing criteria. Best practice is cost plus vendor performance.
- Vendor performance metrics reviewed including # delivered on time, number of invoice issues and asset performance in the
- Planning guidelines set for staff. Crewing guides established to assess if over or under staffed.
- Need to identify root cause reasons for unplanned issues and track performance.
- Initiation of Skills Matrix to assess competencies. Lack of skills cited as reason not to offload direct work from Foreman.
- Desired Stores KPI's: Inventory carry forward, Open Reservations, Fill Rate % at the Window.





# Performance Metrics: Potential Improvements

ENWIN

- quantity and hours broken down by activity. Can be a separate Tender broken down by key planning activity. Planned item
  - Construction. i.e. schedule adherence metrics, cost adherence Establish Corporate Dashboard. KPI's reflect an overall end to end process. Pre Construction > Construction > Post metrics for project work. Schedule.



Reporting: Potential Improvements

- Build start date included in Tender Package. Set expectations and confirm availability of Contractor.
- Board Governance. Proposed Purchase can be brought to the Board for a spend of <\$100K if a multi-year contract.
- Tender and Budget approval are separate. Align timing to present both to Board for approval.
- Constraint created with the limited number of times which Board meets. i.e. 4X per year. Need to align contract expiration with meeting dates.
- Align with City threshold for Budget approval which is \$150K. More flexibility.

### ENWIN

## Reporting: Potential Improvements

- Desired Stores Reports: Slow moving items, Scrap Reports, Dormant Stock, Dead Assets.
- Initiation of Lessons Learned. A Post Mortem of large Capital jobs by Engineering, Operations and Logistics.
- Hard math and trending analysis not done. I.e. historical capital, maintenance, reactive. Basis for solid forecasting.
- ascertain "Burn Rate". Need to spend Budget dollars or lose it. Review of Estimate versus Actual versus Budget. i.e. to
- Material can be charged to wrong Work Orders. Need to rectify before closing WO.
- Use of Red Tag system to quarantine obsolete inventory.



Cost: Potential Improvements



- Obsolete stock estimated at \$.5 to \$1M.
- Annual write off plan set. Scrap identified and sold off. Write off allowance built into annual budget.
- Move to supply/build relationships. Contingent on solid planning. Bigger contractors can have greater buying power than EnWin.
- Inventory used as Insurance to accommodate for inadequate planning.
- Cash flow impact of buying material based on erroneous start date.
- Negative impact of unplanned issues on inventory levels and cash flow.
- Negative impact of unplanned picks on Stores staffing and flexibility.

## Cost: Potential Improvements



- Insufficient forward planning leads to costs for Corporation i.e. Q4 rush to complete Capital projects using Contractors.
- Maintenance and Reactive requirements with an allowance for Rationalize inventory level i.e. set level to accommodate Capital work.
- Work in process build up. Projects not closed have a cash flow impact.
- Explore option of a Complete Turn Key Shop: Design/Supply/Build.
- Excess crewing availability identified through effective Planning and Scheduling. Used to offset need for Contractors.





- Create bank of Designs for Capital. Design butts up against Build. Doesn't allow for flexibility.
- Check material availability and lead times to see Build start date is reasonable.
- Move from commodity based Purchasing to managing Vendor advantage of buying power and low cost of some vendors and contractors. Contingent on effective Planning and Scheduling. relationships as part of long term Purchasing strategy. Take
- 1200 Vendors in Vendor Master. Rationalize to emphasize high performers.
- Safety stock reflected in Inventory Management.
- Build contingencies into Planning process. i.e. backfill projects when start dates are moved.



### ENWIN

### UTILITIES

- Order from the BOM at Stores window. Currently ordering from the Drawing.
- Feedback to Engineering when BOM not adhered to. Capture changes and rationale.
- Initiate a formal Change Request process i.e. for material changes.
- Non value add work for Buyer when working on a Reservation out of date i.e. 6 months.
- Quick fix: Determine usage patterns for last 2 to 3 years in SAP. Align quarterly purchasing with usage versus what's on Reservation.
- Locate Purchasing to closer proximity to Planner, Engineering and Operations for greater synergy.

### ENWIN UTILITIES



- Gap: Engineering, Operations and Inventory in Pre-Build. Include Logistics in preliminary Build discussion. i.e. Pre-Construction meeting.
- Use of Vending Machine to dispense gloves to reduce morning Stores window traffic.
- Application of 6S in the yard for better clarity of material. i.e. better signage and storage
- In the past "Robbed Peter to pay Paul" between crews when kitted and staged material.
- pick up i.e. gloves to reduce window traffic. Estimated 75% of Process consumable Orders on afternoon before for morning window traffic.
- In process: creating a culture of cross-helping in Stores between Water and Hydro..





- Contractors. Move to concept of interchangeable crews. i.e. pick Standardization of material handling between internal crews and materials > kit > palletize >shrink-wrap > place WO on pallet > stage > pick up. Eliminate need for daily line up at Window for planned work.
- In process: move to drop ships on site. Needs to be supported by effective Planning and Scheduling.
- Receipt of orders for Projects 2 days in advance for Material Ready.
- Move to set Planning Windows tied to Material Lead times and interdependencies. i.e. Tx-12 weeks, Concrete poles 12 to 16 weeks, Wood poles 2 weeks.
- Increase the number of suppliers for concrete poles. Currently one provider.



### EWWIN UTILITIES



- Owner of entire process defined for end to end process. i.e.
- Asset Plan reviewed with Engineering and Operations by Q3/Q4 of each year. i.e. identify carry forward and crew availability. Contractor requirements identified and communicated.
- Contract out Design as required to build bank of Capital jobs. Designs too tight to Construction.
- Identify Engineering priorities for conflicting demand in Operations.
- Engineering capacity identified for planning purposes.
- For reasonable Build start dates, Engineering Techs works back date i.e. Design start <MC's, material lead times < job receipt in from desired Build start date to assess reasonableness of the Construction < Locates, Permits < Start date



- WBS (Work Breakdown Structure) not done in current planning. Planning standard for most industries.
- Key interdependencies not formalized in planning. i.e. Board meetings, Material Lead times.
- Planning start dates currently set for beginning of year.
- completion. Contingent on agreement and sign off of the BOM Pre filled Pick Lists implemented with quantities left blank for by Engineering, Operations and Logistics.
- Question around level of effort exerted in Engineering if pick from the Drawing.
- discussion with Operations and Engineering. Better if Logistics Currently Tech checks inventory status in Pre-Construction provides input.





Work Processes: Potential Improvements

- Once alignment between Logistics, Operations and Engineering on start date then start date hard coded to avoid moving target.
- In process: drop shipments at site by Vendor.
- Move to Just In Time deliveries at job site. Tied to Vendor alliances and enhanced Planning and Scheduling.
- Operations Planner separate from PMO on organization chart. Logistics with the PMO acting as oversee of all projects on an Should be in same group. Can have Operations Planner as direct day to day contact with Operations, Engineering and end to end basis.

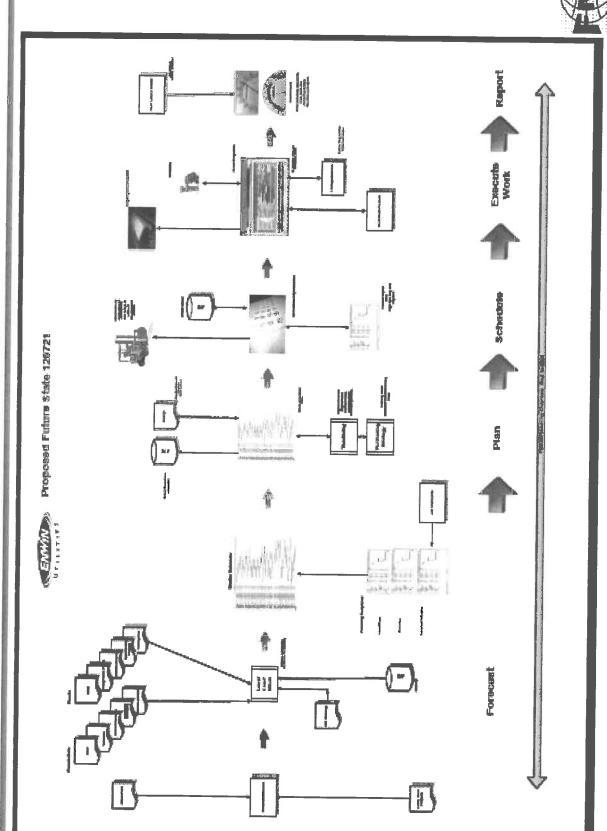




- Work Processes: Potential Improvements
- Movement to Master Schedule concept for managing end to end process. Move to Central Intake with use of Master Schedulethe flow of jobs from Engineering to Operations.
- demand is equal to supply to avoid costly peaks and valleys. Application of Lean principle of level loading work. Work i.e. need to for OT and contracting out.



Proposed Future State: Overview



52

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 53 of 72









- Opportunity One: Reduction in obsolete inventory.
- Physical inspection. Red tag obsolete stock and How: Review usage patterns and aging in SAP. allowance and tie to budget. Scrap and cost move to quarantine. Set up annual write off recovery.
- Value: Estimated \$1M in obsolete stock.
- Considerations: Require annual write off targets Require senior management sign off.





- Opportunity Two: Buying based on usage Patterns
- How: Review 2 years of usage data available in usage requirements versus what material is in SAP. Identify Quarterly needs. Set buying to Reservation.
- Value: Reservations have past due and plugged dates. Reduce the number of unplanned issues which don't align with Reservation. Reduce inventory on hand.
- assess whether usage patterns a better parameter Considerations: Would need to do a pilot to of inventory requirements.





- Opportunity Three: Kit material and stage for internal crews
- Contractors. Kit>Palletize>Shrink Wrap>Place WO How: Standardize material handling with >Stage>Pick up
- Standardize handling regardless of changes to Planning and Scheduling
- crews more quickly out of yard. Observed project orders in morning queue: 4. Estimated cost per Value: Reduce traffic at Stores window. Move hour per crew: \$500.
- substitution and not working to the BOM. Will still Considerations: Does not eliminate parts have periodic traffic at window.

Filed: August 1, 2019

9 - SEC - 34 - Attachment 3

Responses to Interrogatories from SEC



# Opportunity Four: Alignment of BOM with Material

- customization to generate Material pick from BOM. between Operations, Engineering and Logistics and sign off. Data dump from SAP and/or SAP How: Pre-Construction agreement on BOM
- Value: Can have Reservation dates past due up to 6 months with inventory sitting. Cash flow impact.
- Considerations: SAP customization is expensive Engineering, Operations and Logistics. Feedback to Engineering is needed with formal Engineering and time consuming. Need alignment between Change Notice process.





- Opportunity Five: Develop Supply/Build relationships with select Contractors
- How: Identify high performance Contractors with strong buying power who desire long term strategic alliances
- Capital work. Approximately +50% of Capital work by Contractors. Lower the cost on approx. +\$.5M Value: Estimated 1/3 of inventory relates to of inventory if Contractor supplied.
- Considerations: Need to develop solid Planning and Scheduling as processes between internal crews and Contractors need to be seamless.





- Opportunity Six: Rationalize inventory levels "Provide what's needed at a minimum cost"
- How: Reduce inventory on hand to cover Maintenance and Reactive work plus an allowance for Capital.
- approximately \$8M spend year, inventory level Value: Based on 12 turns per year and reduced to approx. \$1M.
- Considerations: Inventory reduction contingent on solid Planning. Move from inventory as an "insurance policy."



Scheduling that connects Logistics, Operations and Opportunity Seven: End to end Planning and Engineering.

### ■ How:

- Formal planning and scheduling that supports one seamless process of Forecast> Plan> Schedule> Execute Work> Report
- Central intake for projects though Project Planning that supports end to end process
- Planning at an individual Project and consolidated Key interdependencies are reflected in Project
- Level load work in Engineering and Operations





### Value:

Opportunities cont'd

- planning i.e. other LDC's have unavailable - Increased crew availability with Proactive factor of 40% for crews
- Decreased need for Contractors with increased availability. Less reactive work in Q4.
- with solid Planning and Scheduling. Reduced Facilitates Contractor and Vendor alliances inventory and enhanced buying power.
- Reduced OT as less unplanned work.
- Supports movement to JIT and drop shipments to site.



Filed: August 1, 2019

9 - SEC - 34 - Attachment 3

Responses to Interrogatories from SEC





management initiative than a Planning exercise or Considerations: Opportunity is more of a change IT project. Appropriate planning software is required.



- Opportunity Eight: Drop shipments to the Site
- shipment i.e. Tx, Reels, Poles. Drop ship for large capital jobs. Set up reasonable Re-Order points How: Identify selected specific items for drop and Re-Order Quantities for material. Set up secure storage (i.e. containers) on site. Coordinate with Vendor.
- Value: Reduce movement in and out of Stores for material and waiting time (i.e. \$500 per hour per crew).
- Considerations: Limited drop shipments without effective Planning and Scheduling.



- Opportunity Nine: Reduce Waiting time at Stores Window
- an hour in afternoon to pick items and make ready afternoon. Stagger shift of one Stores person by How: Orders for consumable items i.e. gloves dropped off in Stores at end of the shift in for pick up the next morning.
- Value: Reduce waiting time at window for Crews. Excess capacity available in Stores as per area observations
- Considerations: Compliance by Crews to complete Orders in advance







# Opportunity Ten: Reduction in Stores staffing requirements.

- How: Implementation of Options 1,2,3.
- Direct and Available Work. Can reallocate Direct absorbed). Supported by area observations of requirements (estimated \$100K per staff fully Value: Reduction in minimum 1 to 2 staffing Work from Foreman to Hourly staff.
- agreed upon BOM. Require minimum 2 days lead Considerations: Require Orders that tie to an time for Material Ready.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 66 of 72









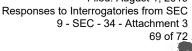
# Opportunity Bundles

Opportunities	Dependencies	Value
1 Reduction in obsolete inventory & 6S applied to yard 2. Pilot: Buying based on usage	Internal project support	Inventory reduction of a \$500,000 to \$1,000,000
<ol> <li>Kit material and stage for internal crews</li> <li>Align BOM with material pic</li> </ol>	Internal project support	Crews deployed sooner @ \$500/hour per crew Less in & out of stores Increase inventory turns
5. Initiate Supply/Build relationships 6. Rationalize inventory levels	Completion of (7) Planning and Scheduling will permit additional benefit	Inventory reduction of a \$500,000 to \$1,000,000 Inventory reduction of a \$500,000 to \$1,000,000



# Opportunity Bundles

- 1			_		_	
	Value	Improve labour availability Reduce contractor costs currently 50% of Capital		Inventory reduction of a \$500,000 to \$1,000,000 linventory reduction of a \$500,000 to \$1,000,000		Reduce 1 or 2 FTE's @ \$100,000 each
	Dependencies	Internal project support		Contingent on (7) Planning and Scheduling for maximum benefit		Last Opportunities to initiate
	Opportunities	7. End to end Planning and Scheduling, QA and support		8. Drop shipments to site: Optimize activity and benefits		<ul><li>9. Reduction in wait time at</li><li>Stores window</li><li>10. Reduction in staffing</li><li>needs</li></ul>





Implementation style

 Constructive confrontation of issues ■ Involvement on all levels

A sense of urgency

Focus on results

Joint commitment to delivery

Accountability for performance

Ownership of solutions

A requirement for honesty and an appropriate response

"Doing what we say we will do"

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 70 of 72





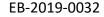




Next Steps

Begin Joint Implementation Monday, August 13, 2012.

EB-2019-0032 Filed: August 1, 2019 Responses to Interrogatories from SEC 9 - SEC - 34 - Attachment 3 72 of 72





Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 35

Page **1** of **2** 

### 9 - SEC - 35

### Reference:

Exhibit 9, Page 17. With respect to account 1534 and 1535:

### **Question:**

- a. Please provide a full breakdown of the costs contained in Account 1534.
- b. Please provide a full breakdown of costs contained in Account 1535.

### Response:

a) Below is the breakdown of the costs contained in Account 1534.

Account 1534	As of December 31, 2018		
			Amount
Smart Grid Capital [	Deferral Account		
Asset #58945-0 portion GRID 20/20 Invoice	on attributable to Smart Grid capital e 415:	2017	55,006
	OptaNODE DTM-GSM		
	Monthly Energy Balance Reporting GRID Watchdog SaaS	Services	
	GSM Communication Data Plan		
Sub-Account Accur	nulated Depreciation total		(2,445)
Carrying Charges to	tal		1,342
	Total		53,904

b) Below is the breakdown of the costs contained in Account 1535.





Filed: August 1, 2019

Responses to Interrogatories from SEC

9 - SEC - 35

Page **2** of **2** 

Account 1535 As of December 31, 2018

Description	Amount
Smart Grid OM&A Deferral Account	
<u>2010</u>	
Burlington-Grid Smart City round table	493
EDA Operations council meeting Smart Grid planning	342
Smart Grid Strategy INV#2671048	150,000
<u>2011</u>	
Smart Energy Canada -Hyatt Regency TO	417
<u>2012</u>	
Smart Grid presentation by Mearie/Elenchus/IESO/OEB - Vaughan	1,280
<u>2014</u>	
Varentec-Smart Grid Fund Project	244
Varenteco Engo Smart Grid	1,177
GRID 20/20 DTM Pilot Project-Transformer monitor/sensor	239
GRID 20/20 DTM Pilot Project-Transformer monitor/sensor	62
<u>2015</u>	
Varentec-Smart Grid Fund Project	854
Varenteco Engo Smart Grid	8,557
Varenteco Engo Smart Grid	1,168
GRID 20/20 DTM Pilot Project-Transformer monitor/sensor	12,199
GRID 20/20 DTM Pilot Project-Transformer monitor/sensor	5,574
GRID 20/20 DTM Pilot Project-Transformer monitor/sensor	67
IBM communication study for Smart Grid	3,188
IBM communication study for Smart Grid	510
Communications network strategy	151,600
<u>2016</u>	
Varenteco Engo Smart Grid	(2,787)
Varenteco Engo Smart Grid	(241)
GRID 20/20 DTM Pilot project	10,944
GRID 20/20 DTM Pilot Project-Transformer monitor/sensor	4,177
GSM Communication data plan renewal	7,499
GSM Communication hourly reads	275
Sub- Account Depreciation Expense total	2,445
Carrying Charges total	25,940
	<b>Total</b> 386,221